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CORRECTING PHYSICAL DEFECTS IN SCHOOL CHILDREN.

A STUDY OF THE RESULT OF THE CORRECTION OF CERTAIN PHYSICAL DEFECTS ON THE GROWTH AND DEVELOPMENT OF 146 SCHOOL CHILDREN IN BALTIMORE, MD.¹

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INTRODUCTION.

Heretofore it has been considered almost an axiom that the correction of the hampering physical defects of children will be followed by an increase in the rate of growth as represented by height and weight, because it seems logical that this should be so. However, there has been no general attempt made to test this assumption in actual experience. The present study was undertaken for the purpose of attempting such a test, or rather as a beginning of such a test, in the hope that other workers might be stimulated to make similar observations. It is obvious, of course, that an accumulation of exact information regarding the effect of measures for the relief of the remediable physical defects most frequently observed in examinations of children of preschool and school age will be the most potent argument for their correction and will give additional assurance to parents of the necessity for such relief. Of even greater importance is the need of a scientific evaluation of preventive measures such as these; for it is believed that insufficient attention has been paid to the determination of the real efficacy of many of the preventive measures that have been proposed and practiced.

The present study is of interest not so much because of the results it affords for a limited number of children, but because it may suggest practicable and simple methods for making the necessary observations for determining whether or not a specific remedial measure actually has the hoped-for results. It should be regarded, therefore, as a preliminary inquiry.

¹ From Field Investigations in Child Hygiene, United States Public Health Service. The statistical analysis of the results of this study was made in the Statistical Office of the United States Public Health Service.

NUMBER OF CHILDREN AND TYPE OF DEFECTS.

In April, 1920, 200 children in Baltimore, from 7 to 14 years of age, were selected for corrective work, preceding a series of measurements of height and weight. It was planned to make measurements before corrective work and at intervals of a month succeeding corrections, except in the cases of removal of adenoids and tonsils, when the interval between measurements was to be two weeks. Table I shows the number of children having specified defects and various combinations of defects.

TABLE I.—*Distribution of 200 children selected for corrective work, according to the nature of the defect.*

| Nature of defect. | Number of children having specified defects. |
|---|--|
| Adenoids..... | 7 |
| Adenoids, tonsils..... | 6 |
| Adenoids, tonsils, teeth..... | 16 |
| Adenoids, tonsils, teeth, vision..... | 2 |
| Adenoids, tonsils, vision..... | 1 |
| Adenoids, tonsils, vision, hearing..... | 1 |
| Adenoids, teeth..... | 10 |
| Tonsils..... | 12 |
| Tonsils, teeth..... | 15 |
| Tonsils, teeth, vision..... | 2 |
| Tonsils, teeth, hearing..... | 3 |
| Tonsils, teeth, vision, hearing..... | 2 |
| Tonsils, vision, hearing..... | 1 |
| Teeth..... | 70 |
| Teeth, vision..... | 10 |
| Teeth, vision, hearing..... | 7 |
| Vision..... | 11 |
| Vision, hearing..... | 3 |
| Hearing..... | 11 |
| Hernia..... | 3 |
| Special..... | 5 |
| Bronchitis..... | 2 |
| Total number of children..... | 200 |

THE HOME AND SCHOOL ENVIRONMENT.

The 200 children were in two groups which were located in widely separated sections of the city. School No. 25, at Bond Street and Eastern Avenue, is in a part of the city that at one time was a good residential section but now has many factories, stores, and lumber yards. It is within a few blocks of the water front and a market. The large old houses are used as tenements, each house sheltering several families. Little attention is paid to bathtubs or to adequate toilets, and the supply of water is usually limited to one tap on each floor. The facilities for housekeeping are poor. Many homes have no gas, and only one has electric lights.

The schoolhouse is an old building with practically no playground; cars and a railroad siding are on the street. The building is in poor repair, the rooms are small and crowded, poorly ventilated and lighted.

There is a public bath opposite the school, used constantly by the children, and the city park with swimming pool is within easy access.

The other group, located at School No. 96, has a large modern building, in a good location; no cars pass the school; the streets are quiet and safe and are used as playgrounds to supplement a large sunny school yard. The heating and ventilating facilities for the building seem adequate; each room is well lighted, large, and not crowded. The neighborhood is one of modern two-story homes, one family in each house. Many families own their homes or are buying them. With few exceptions each house has a bath, many are lighted by electricity, and the small back yards are neat and well kept. The neighborhood adjoins open fields and woods and is altogether desirable as a residence section. There are several clothing factories, a button factory, and an abattoir in the neighborhood.

RACE STOCK.

The larger number of children with foreign-born parents was found at School No. 25, but there were many homes at No. 96 where a foreign language was spoken exclusively in the home. Table II shows the distribution of the children according to ancestry.

TABLE II.—*Distribution according to ancestry (racial stock) of children of 2 schools of Baltimore observed in this study.*

| Parents. | Both schools. | School No. 96. | School No. 25. |
|----------------------------|---------------|----------------|----------------|
| All race stocks..... | 173 | 78 | 95 |
| Both native white..... | 73 | 50 | 23 |
| Both Polish..... | 23 | ..... | 23 |
| Both Italian..... | 14 | ..... | 14 |
| Both Jewish (Russian)..... | 32 | 15 | 17 |
| Both Austrian..... | 7 | 1 | 6 |
| Both German..... | 10 | 6 | 4 |
| Both Hungarian..... | 1 | 1 | ..... |
| Both Serbian..... | 1 | 1 | ..... |
| Mixed parentage..... | 9 | 4 | 5 |
| Unknown..... | 3 | ..... | 3 |

NATURE OF CORRECTIONS.

Of the original group of 200 children 146 had corrections and were observed to the end of the year. However, only two groups (adenoid or tonsil corrections and teeth corrections), with a total of 132 children, were large enough to justify a study of the effect of the corrections on the height and weight. Table III shows the corrections made on these children.

TABLE III.—*Corrections made on 132 children included in the tabulation for this study.*

| Nature of correction. | Tonsil-adenoid group. | Teeth group. |
|---------------------------|-----------------------|--------------|
| Number of children..... | 49 | 83 |
| Total corrections..... | 97 | 100 |
| Tonsils and adenoids..... | 49 | |
| Teeth..... | 40 | 83 |
| Glasses fitted..... | 6 | 9 |
| Ear treated..... | | 8 |
| Phimosis..... | 2 | |

The hernia, hearing, and vision groups were composed of so few children that no attempt was made to tabulate them.²

² Of the 200 children originally selected, corrections were made on 154, and 146 of these remained in school to the end of the year for observation; but certain groups, such as those treated for hernia, hearing, and vision, were too small to justify the tabulation of results.

On 46 children no corrections were made for the following reasons:

| Reason for not making corrections. | Number of children. | | |
|---|---------------------|-------|--------|
| | Total. | Boys. | Girls. |
| Left school before any corrective work..... | 19 | 5 | 14 |
| Refused treatment..... | 16 | 10 | 6 |
| Under physician's care..... | 6 | 1 | 5 |
| Treated in clinics..... | 5 | 3 | 2 |
| Total..... | 46 | 19 | 27 |

On the remaining 154 children the following 261 corrections were made:

| Nature of correction. | Number of cases corrected. |
|--|----------------------------|
| All cases corrected..... | 261 |
| Defective teeth..... | 126 |
| Removal of adenoids and tonsils..... | 49 |
| Tonsils treated, no surgery necessary..... | 12 |
| Adenoids removed..... | 2 |
| Hearing (ear treated)..... | 26 |
| Hernia, no surgery..... | 3 |
| Bronchitis..... | 2 |
| Vision, glasses fitted..... | 26 |
| Vision, no glasses needed..... | 13 |
| Phimosis..... | 2 |

Eight children left school immediately after corrections had been made. In addition to the 200 children selected for the remedial work, brothers, sisters, and schoolmates asked for corrective work, and whenever it was possible this was done. There were made in this group the following corrections:

24 cases dental corrections.

14 cases glasses fitted.

14 cases tonsils and adenoids removed.

1 case phimosis operation.

Physical defects were corrected in two teachers, the corrections being one for nose and throat and one for teeth.

Four mothers went to the free clinics; three had glasses fitted; one had goiter removed.

One father had dental corrections made in the dental clinic.

There were 1,870 weights and measurements made, 255 visits to schools, 518 visits to homes, 410 visits to clinics and hospitals, 21 visits to welfare agencies, and 6 visits to physicians.

The helpful attitude of the principals of the schools and the cooperation of the class teachers were most gratifying. After an appeal to the Parent-Teacher Club at one school scales were purchased for the use of the school, and the mothers and teachers were anxious to have reports of measures and to talk over the condition of the children. At the other school scales were provided late in the year from funds remaining from Junior Red Cross activities in war work.

HOW CORRECTIONS WERE MADE.

Nine of the tonsil operations were arranged for by the parents after arrangements for examination and admission to the hospital had been made. The other 36 operations for tonsils and two phimosi operations were made without expense to the parents. The city charities assumed expenses for 9 cases of tonsils and adenoid operations; 13 dental corrections were made by private dentists; 19 parents paid the cost of materials used in treatment in the clinics; and 94 cases were without expense to the parents. There was the heartiest cooperation from the hospitals. In some hospitals it was difficult to secure beds; but these institutions looked after the outpatients in their clinics (dental, ear, eye), and hospitals where beds could be secured for operative work were most generous in placing the children. The Franklin Street Ear, Eye, and Throat Infirmary, the Franklin Square Hospital, Johns Hopkins Hospital Free Dispensary, the Harriet Lane and the Henry Phipps Psychiatric Clinic, the Maryland Dental Infirmary, Mercy Hospital, the Presbyterian Eye, Ear, and Throat Infirmary, St. Agnes Hospital, and the University of Maryland Hospital (Children's Clinic and Dental Clinic), cooperated in making the corrections.

SPECIAL PRECAUTIONS.

Arrangement was made whereby the children of this study were exempted from nutrition instruction and from any special hygiene other than the correction of their physical defects, as the Public Health Service purposed to secure the correction of these defects in order to determine the effect their removal might have upon the child's nutrition. No attempt to regulate food was made other than the usual directions given patients by the hospital worker. During the months of April, May, and June, 1921, milk was distributed in the schools at 4 cents a half pint. Few of the children (32) had the milk, as the price was prohibitive; and in no case was the milk provided at home during the holidays or on Saturdays and Sundays.

In November, 1919, when a large number of Baltimore school children were measured under the direction of Dr. E. V. McCollum, of Johns Hopkins University, and in January and February, 1920, when officers of the United States Public Health Service made the physical examinations of these same children, the fathers and many of the mothers were employed at high "war wages"; there was no question of having the money to buy food, although living prices were high. These conditions changed, and in May, 1920, at the time of the first corrective work, a garment-worker's strike left many homes with curtailed incomes. In the latter part of 1920 the un-

employment situation became acute. Many families were without regular incomes, while the living costs were still high. There was an actual shortage of food for some of the children; and in the families where an attempt had been made to invest the "war wages" by buying the home, the supply of food was limited. It is thus seen that, in addition to the deliberate failure of the investigators to adopt measures designed to promote the state of nutrition, in order better to evaluate the effect of the correction of certain hampering physical defects on growth and development, the children included in this study were subjected to unusual conditions which tended still further to strengthen the conclusions in respect of the results of this study.

Of the 146 children on the school register in June, 1921, whose corrections had been made, 3 children advanced a year and a half in the school year, 134 children were promoted the usual school grade, and 9 failed of promotion. The children who were not promoted were given mental examinations. Two of the boys were decidedly below the intelligence level for their age, three girls were retarded and very slow, one girl of 9 years seemed to have reached her limit at a 6-year level, and one girl and two boys were of normal intelligence. Of these nine children who failed of promotion, six were already over age for their grade in school. Of the 146 defective children on whom corrections were made, 63 children, or 43 per cent, were over age for their grade and had repeated from one to four years prior to the time corrections were made.

TONSIL AND ADENOID CORRECTIONS.

A total of 49 children who had tonsil or adenoid corrections were weighed and measured at varying intervals before and after the operation. The interval between the first measurement and the time of correction of the defect varied from 6 months to 17 months, and the interval between the correction and the last measurement varied from 1 month to 13 months. In addition to the tonsil and adenoid operations, 40 of these children had dental corrections, 7 had corrections of vision by being fitted with glasses or other treatment, and 2 had phimosis operations. It seemed reasonable, however, to assume that the tonsil and adenoid corrections in these cases were more important than the others, and so the increments in weight and height before this correction were compared with the corresponding increments after the tonsil or adenoid corrections, regardless of the time the other corrections were made.

Table IV shows by sex and age groups the gain in weight (pounds) per child per month and the gain in height (inches) per child per month for a period before and a period after the operation.³

³The average is a weighted one, the gain in weight per month for each child being considered in proportion to the number of months he was under observation.

TABLE IV.—Average gain per month of 49 children with diseased tonsils or adenoids before and after the defects were corrected.¹

| Age group. | Gain in weight per month (pounds). | | | Gain in height per month (inches). | | |
|------------------------|------------------------------------|-------|--------|------------------------------------|-------|--------|
| | Both sexes. | Boys. | Girls. | Both sexes. | Boys. | Girls. |
| 7 to 10 years: | | | | | | |
| Before correction..... | 0.219 | 0.261 | 0.198 | 0.159 | 0.177 | 0.149 |
| After correction..... | .767 | .679 | .799 | .277 | .217 | .299 |
| 11 to 14 years: | | | | | | |
| Before correction..... | .439 | .313 | .604 | .133 | .146 | .116 |
| After correction..... | 1.001 | .650 | 1.143 | .242 | .213 | .253 |
| All ages: | | | | | | |
| Before correction..... | .295 | .286 | .301 | .149 | .162 | .141 |
| After correction..... | .891 | .676 | .905 | .266 | .212 | .287 |

¹ Data in this table are based on the following numbers of children:

10 boys, 7 to 10 years.
23 girls, 7 to 10 years.
7 boys, 11 to 14 years.
9 girls, 11 to 14 years.

49 children.

Owing to the relatively small number of children involved, it was not practicable to use single-year age groups, but two age groups were made, children 7 to 10 years being separated from those 11 to 14 years of age. Ages were calculated to the nearest birthday at the time of the operation.

It is realized that the rate of gain in weight and in height per month varies with the age of the child, and therefore the gain for a period before correction is not strictly comparable with the gain after correction, but the table is introduced as a rough indication of the differences observed in growth before and after the operation.

The 23 girls 7 to 10 years of age gained 0.198 pound per child per month before the operation, whereas after the correction the gain was 0.799 pound, approximately four times as much as before the operation. The difference was not so great for other groups but seems sufficient to be significant.

RATE OF GROWTH OF A SPECIAL GROUP OF CHILDREN.

In order to make a more accurate comparison of the rate of growth before and after the corrections and to show the trend of the growth from month to month, a curve was constructed to show the average weight of certain groups of children for each month or half month for a period immediately before the corrections and for a corresponding period immediately following the corrections.

In order to do this, the calendar dates of the weighings were disregarded, and all weights at the time of correction were brought together and averaged. All weights one month after correction were averaged. Weights at other periods before and after correc-

tion were averaged in a similar way to make up a weight curve from six months before correction to six months after correction. In order to do this, certain missing weights had to be supplied by interpolation. This was done on a straight line basis—that is, the assumption was made that a child gained or lost an equal number of pounds each month intervening between the actual known weights; for example, if he weighed 55 pounds one month and 57 pounds two months later, he was assumed to weigh 56 pounds the intervening month, the average of the two known weights. A group of 20 girls 7 to 10 years old who had height and weight records for six months preceding the operation and for six months following the operation were tabulated in this way. The resulting average weights, average heights, and the weight-height indexes for a period from six months before the operation to six months after the operation are shown in the first three columns (upper) of Table V. Similar averages were computed for groups of girls 11 to 14 years of age and for boys of similar age groups, although data were not available for the full six months after the operation in all cases. The averages for these groups are shown in the same table.

TABLE V.—*Mean weight, mean height, and weight-height index of 43 children with defective tonsils or adenoids or both, for 6 months before and for 6 months after the operation to correct the defects.*¹

| Time of measurement. | Ages 7-10 years at time of the operation. | | | Ages 11-14 years at time of the operation. | | |
|--------------------------------|---|-----------------------|--|--|-----------------------|--|
| | Mean weight (pounds). | Mean height (inches). | Weight-height index (pounds per inch of height). | Mean weight (pounds). | Mean height (inches). | Weight-height index (pounds per inch of height). |
| GIRLS. | | | | | | |
| 6 months before operation..... | 45.45 | 46.57 | 0.976 | 66.37 | 53.87 | 1.232 |
| 5 months before operation..... | 45.77 | 46.77 | .979 | 66.78 | 54.60 | 1.236 |
| 4 months before operation..... | 45.98 | 46.89 | .981 | 67.46 | 54.05 | 1.248 |
| 3 months before operation..... | 46.17 | 46.09 | .980 | 68.09 | 54.13 | 1.258 |
| 2 months before operation..... | 46.35 | 47.28 | .980 | 68.78 | 54.24 | 1.268 |
| 1 month before operation..... | 46.28 | 47.45 | .975 | 69.47 | 54.35 | 1.278 |
| Time of operation..... | 46.13 | 47.63 | .969 | 69.47 | 54.47 | 1.275 |
| 1 month after operation..... | 46.31 | 47.86 | .968 | 70.47 | 54.90 | 1.284 |
| 1 month after operation..... | 47.32 | 48.28 | .980 | 70.93 | 55.02 | 1.290 |
| 1½ months after operation..... | 48.56 | 48.46 | 1.002 | 72.21 | 55.11 | 1.310 |
| 2 months after operation..... | 48.99 | 48.69 | 1.006 | 73.29 | 55.32 | 1.325 |
| 2½ months after operation..... | 49.36 | 48.89 | 1.010 | 73.80 | 55.51 | 1.329 |
| 3 months after operation..... | 49.91 | 49.01 | 1.018 | 74.45 | 55.61 | 1.339 |
| 3½ months after operation..... | 50.31 | 49.09 | 1.025 | 74.73 | 55.69 | 1.342 |
| 4 months after operation..... | 50.70 | 49.19 | 1.031 | 75.09 | 55.84 | 1.345 |
| 4½ months after operation..... | 51.03 | 49.25 | 1.036 | 76.22 | 55.92 | 1.363 |
| 5 months after operation..... | 51.39 | 49.39 | 1.040 | 76.75 | 56.00 | 1.370 |
| 5½ months after operation..... | 51.54 | 49.45 | 1.042 | 77.81 | 56.12 | 1.387 |
| 6 months after operation..... | 52.24 | 49.55 | 1.054 | 78.93 | 56.18 | 1.405 |

¹ Data in this table are based on the following numbers of children:

| | |
|---------------------|----|
| Girls, total..... | 29 |
| 7 to 10 years..... | 20 |
| 11 to 14 years..... | 9 |
| Boys, total..... | 14 |
| 7 to 10 years..... | 9 |
| 11 to 14 years..... | 5 |

TABLE V.—Mean, weight, mean height, and weight-height index of 43 children with defective tonsils or adenoids or both, for 6 months before and for 6 months after the operation to correct the defects—Continued.

| Time of measurement. | Ages 7-10 years at time of the operation. | | | Ages 11-14 years at time of the operation. | | |
|-----------------------------------|---|-----------------------|--|--|-----------------------|--|
| | Mean weight (pounds). | Mean height (inches). | Weight-height index (pounds per inch of height). | Mean weight (pounds). | Mean height (inches). | Weight-height index (pounds per inch of height). |
| BOYS. | | | | | | |
| 6 months before operation..... | 47.58 | 47.02 | 1.012 | 58.68 | 51.12 | 1.148 |
| 5 months before operation..... | 48.25 | 47.21 | 1.022 | 58.95 | 51.27 | 1.150 |
| 4 months before operation..... | 48.47 | 47.39 | 1.023 | 59.27 | 51.42 | 1.153 |
| 3 months before operation..... | 48.67 | 47.61 | 1.022 | 59.82 | 51.53 | 1.161 |
| 2 months before operation..... | 49.50 | 47.79 | 1.036 | 59.41 | 51.65 | 1.150 |
| 1 month before operation..... | 49.39 | 48.01 | 1.029 | 60.34 | 51.73 | 1.166 |
| Time of operation..... | 48.61 | 48.22 | 1.008 | 60.30 | 51.75 | 1.165 |
| 1/2 month after operation..... | 49.03 | 48.38 | 1.013 | 60.57 | 51.96 | 1.166 |
| 1 month after operation..... | 49.64 | 48.42 | 1.025 | 60.83 | 52.02 | 1.166 |
| 1 1/2 months after operation..... | 50.44 | 48.56 | 1.039 | 62.45 | 52.08 | 1.199 |
| 2 months after operation..... | 50.79 | 48.60 | 1.045 | 62.65 | 52.29 | 1.198 |
| 2 1/2 months after operation..... | 50.81 | 48.75 | 1.042 | 63.70 | 52.45 | 1.214 |
| 3 months after operation..... | 51.50 | 48.86 | 1.054 | 64.11 | 52.52 | 1.221 |
| 3 1/2 months after operation..... | 51.83 | 48.99 | 1.058 | 64.07 | 52.58 | 1.219 |
| 4 months after operation..... | 52.22 | 49.28 | 1.060 | ..... | ..... | ..... |

In Figures 1 and 2 the weights, the heights, and the weight-height indexes for each group have been plotted on logarithmic scales to show the trend of growth over the period involved. On the logarithmic scale equal distances vertically represent equal *percentage* increases, and therefore the disturbing factor due to the normal expected increase in the absolute gain in weight per month as the child grows older is eliminated. The *steepness* of the curve therefore indicates the *rate* of growth.

The weight in each age group seems to have increased considerably faster after the operation than before, except for the first half-month during which the child had probably not completely recovered from the effect of the operation. The effect on the height does not appear significant, but the weight-height index (weight per inch of height), which remained virtually the same in the 7 to 10 age group for the period preceding the operation, increased considerably after the operation.

In order to show more clearly the differences between the period before and the period after the operation, a straight line (on logarithmic paper) was put through the curve for each period independently by the method of least squares.⁴

⁴ Let y =weight and x =height. Then the equation for the line of equal percentage increase (straight line on logarithmic paper) would be $y=abx$, a and b being constants which are evaluated by the method of least squares from the actual weights and heights given in Table V. This equation gives a series of weights at the various heights which, plotted on logarithmic paper, forms a straight line which is the line of equal percentage increase.

This line represents the most probable straight line which could be fitted to the data. It must be remembered, however, that a straight line on logarithmic paper does not represent the line of equal increase in pounds or other unit of weight or height, but represents the line of equal percentage increase. It therefore be-

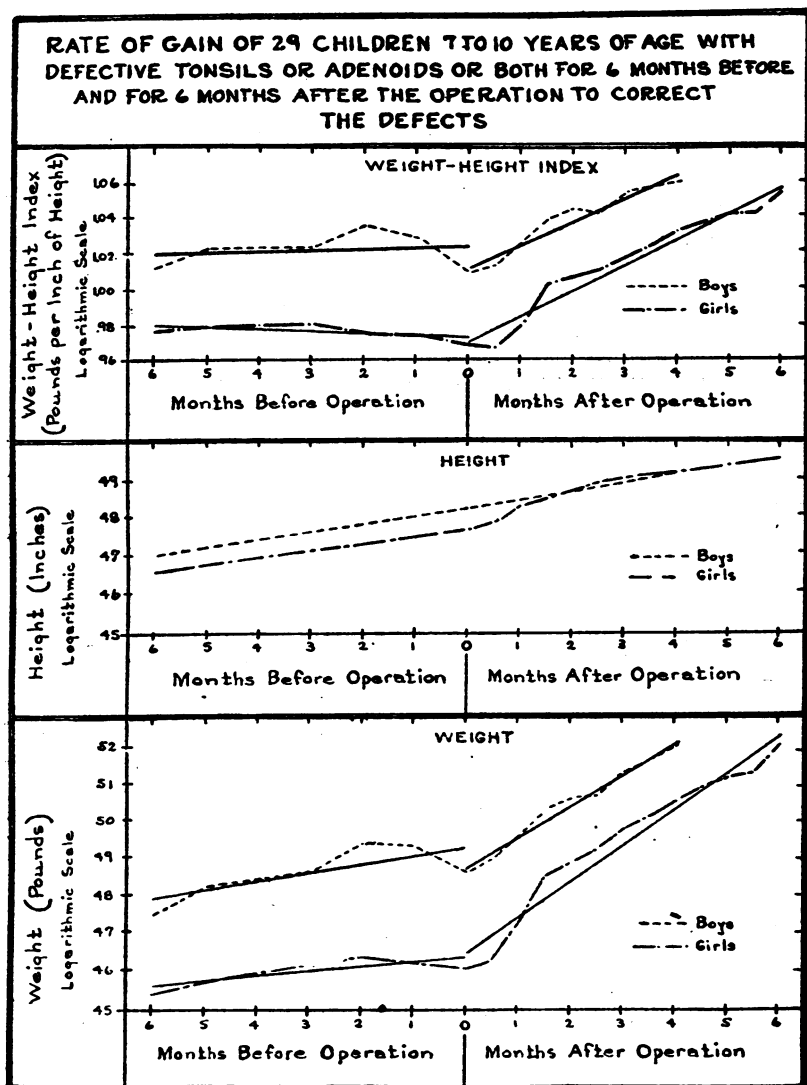


Fig. 1.

comes a matter of interest to compare this average percentage increase per month before the operation with the average percentage increase per month after the operation. Table VI compares these figures for the period before and the period after the operation.

RATE OF GAIN OF 14 CHILDREN 11 TO 14 YEARS OF AGE WITH DEFECTIVE TONSILS OR ADENOIDS OR BOTH FOR 6 MONTHS BEFORE AND FOR 6 MONTHS AFTER THE OPERATION TO CORRECT THE DEFECTS

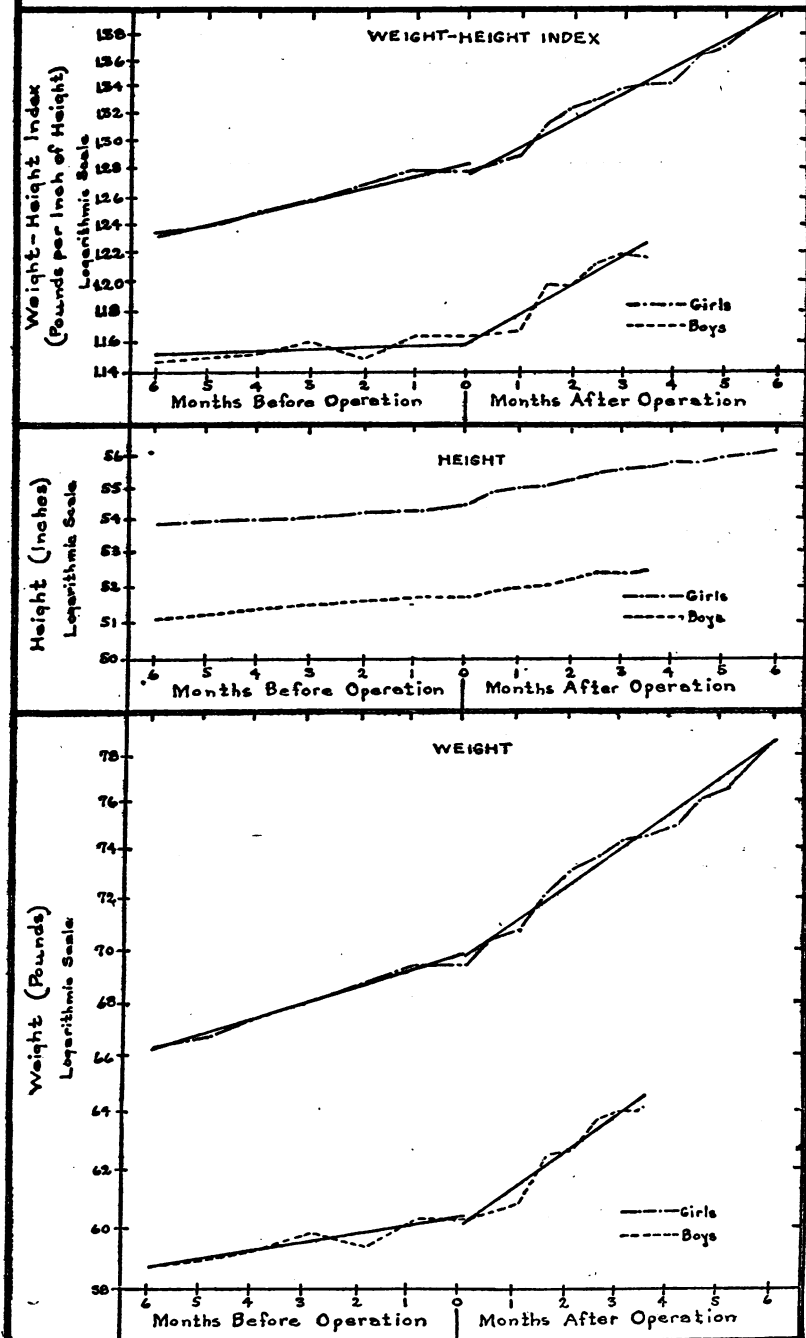


Fig. 2.

TABLE VI.—Average percentage increase per month in weight, in height, and in the weight-height index for a group of 43 children with defective tonsils or adenoids or both, for 6 months before and 6 months after the operation to correct the defects.

| Age group. | Percentage increase per month in— | | | | | |
|-----------------------|-----------------------------------|-------|---------|-------|----------------------|-------|
| | Weight. | | Height. | | Weight-height index. | |
| | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. |
| 7 to 10 years: | | | | | | |
| Before operation..... | 0.27 | 0.47 | 0.37 | 0.42 | —0.12 | 0.05 |
| After operation..... | 2.05 | 1.80 | .62 | .49 | 1.41 | 1.29 |
| 11 to 14 years: | | | | | | |
| Before operation..... | .84 | .47 | .18 | .21 | .67 | .26 |
| After operation..... | 1.99 | 2.04 | .48 | .46 | 1.51 | 1.56 |

^a Decrease.

Attention should be called to the difference between this table and Table IV, which shows the actual pounds and inches of increase per month. In Table VI the percentage of increase per month is shown, and the comparison between the two periods (before and after operation) becomes more legitimate because of the elimination of the fact of increasing weights and heights which would add to the *actual* pounds and inches of increase per month as shown in Table IV but would probably not add to the *percentage* increases per month. The fact that the expected or normal percentage of increase in children changes with age is not taken account of, but the total period involved is 12 months (or an average difference of 6 months), and the percentage of increase would not greatly change in this time except as the result of some exceptional event, such as, in these cases, the correction of a physical defect.

In practically all the groups the percentage increases per month in weight, height, and weight-height index are much larger after than before the correction of the defects. In the case of the weight of girls 7 to 10 years of age, the increase before the operation was only about one-fourth of 1 per cent per month, whereas after the operation it was over 2 per cent per month. Other groups show less striking differences, but all show substantial increases after the operation.

CORRECTION OF DENTAL DEFECTS.

Table VII, giving data on 83 children with dental defects, shows by sex and age groups the gain in weight (pounds) per child per month and the gain in height (inches) per child per month for periods before correction and after correction.

TABLE VII.—Average gain per month of 83 children with defective teeth, before and after the defects were corrected.¹

| Age group. | Gain in weight per month (pounds). | | | Gain in height per month (inches). | | |
|------------------------|------------------------------------|-------|--------|------------------------------------|-------|--------|
| | Both sexes. | Boys. | Girls. | Both sexes. | Boys. | Girls. |
| 7 to 10 years: | | | | | | |
| Before correction..... | 0.333 | 0.353 | 0.319 | 0.214 | 0.228 | 0.204 |
| After correction..... | .562 | .492 | .603 | .210 | .211 | .210 |
| 11 to 14 years: | | | | | | |
| Before correction..... | .590 | .449 | .602 | .200 | .178 | .213 |
| After correction..... | .811 | .765 | .856 | .193 | .288 | .157 |
| All ages: | | | | | | |
| Before correction..... | .394 | .374 | .408 | .212 | .217 | .206 |
| After correction..... | .617 | .568 | .649 | .206 | .215 | .200 |

¹ Data in this table are based on the following numbers of children:

26 boys, 7 to 10 years.
 38 girls, 7 to 10 years.
 8 boys, 11 to 14 years.
 11 girls, 11 to 14 years.
 —
 83 children.

In this table, time of operation was the designation for the time of the first extraction, filling, or prophylactic treatment. Intervals between the first measurements and the time of correction varied from 5 to 18 months before the operation, while the intervals between the corrections and the last measures varied from 1 to 14 months. In addition to their dental treatment, 9 children had defects of vision corrected by being fitted with glasses, and 8 children had nonsurgical treatment of the ear. The time these additional corrections were made was not considered in this study of the increase of weight and height.

The 38 girls 7 to 10 years of age gained 0.319 pound per child per month before correction and 0.603 pound per month after correction, while their gain in height was about the same for each period, 0.204 inch before and 0.210 inch after correction. The 11 to 14 year-old group of girls and the boys 7 to 10 years gained more in weight per month in the five months succeeding correction than before correction but did not gain in height as much as before the operation.

RATE OF GROWTH OF A SPECIAL GROUP OF CHILDREN.

Table VIII more accurately compares the rate of growth before and after the correction of dental defects. The data were recorded in the same way as that described in the case of corrections of adenoids and tonsils. The table shows the average weights, heights, and weight-height indexes for a period from five months before the correction to five months after for each group.

TABLE VIII.—Mean weight, mean height, and weight-height index of 67 children with defective teeth, for 5 months before and for 5 months after correction of the defects was begun.¹

| Time of measurement. | Ages 7-10 years at time of the operation. | | | Ages 11-14 years at time of the operation. | | |
|--------------------------------|---|-----------------------|--|--|-----------------------|--|
| | Mean weight (pounds). | Mean height (inches). | Weight-height index (pounds per inch of height). | Mean weight (pounds). | Mean height (inches). | Weight-height index (pounds per inch of height). |
| GIRLS. | | | | | | |
| 5 months before operation..... | 46.44 | 47.12 | 0.986 | 56.76 | 51.31 | 1.106 |
| 4 months before operation..... | 46.63 | 47.34 | .985 | 56.80 | 51.64 | 1.100 |
| 3 months before operation..... | 46.80 | 47.59 | .983 | 57.65 | 52.03 | 1.108 |
| 2 months before operation..... | 47.11 | 47.89 | .984 | 58.16 | 52.22 | 1.114 |
| 1 month before operation..... | 47.64 | 48.15 | .989 | 58.68 | 52.36 | 1.121 |
| Time of operation..... | 48.33 | 48.52 | .996 | 58.58 | 52.67 | 1.112 |
| 1 month after operation..... | 48.97 | 48.82 | 1.003 | 59.96 | 52.79 | 1.136 |
| 2 months after operation..... | 49.84 | 48.99 | 1.017 | 62.27 | 53.04 | 1.174 |
| 3 months after operation..... | 50.25 | 49.20 | 1.021 | 63.58 | 53.17 | 1.196 |
| 4 months after operation..... | 50.48 | 49.40 | 1.022 | 63.23 | 53.31 | 1.186 |
| 5 months after operation..... | 51.39 | 49.59 | 1.036 | 63.81 | 53.41 | 1.195 |
| BOYS. | | | | | | |
| 5 months before operation..... | 47.67 | 47.58 | 1.002 | 61.54 | 53.91 | 1.141 |
| 4 months before operation..... | 48.05 | 47.83 | 1.005 | 61.81 | 54.30 | 1.138 |
| 3 months before operation..... | 48.25 | 48.07 | 1.001 | 62.60 | 54.57 | 1.147 |
| 2 months before operation..... | 48.56 | 48.36 | 1.004 | 63.66 | 54.78 | 1.162 |
| 1 month before operation..... | 49.04 | 48.61 | 1.009 | 64.46 | 54.91 | 1.174 |
| Time of operation..... | 49.57 | 48.85 | 1.015 | 65.46 | 55.25 | 1.185 |
| 1 month after operation..... | 50.55 | 49.12 | 1.029 | 66.51 | 55.37 | 1.201 |
| 2 months after operation..... | 51.11 | 49.36 | 1.035 | 67.19 | 55.45 | 1.212 |
| 3 months after operation..... | 51.47 | 49.50 | 1.040 | 68.89 | 55.64 | 1.238 |
| 4 months after operation..... | 51.92 | 49.71 | 1.044 | 69.82 | 55.86 | 1.250 |
| 5 months after operation..... | 52.23 | 49.88 | 1.047 | 69.57 | 56.13 | 1.239 |

¹ Data in this table are based on the following numbers of children:

| | |
|---------------------|----|
| Girls (total)..... | 38 |
| 7 to 10 years..... | 32 |
| 11 to 14 years..... | 6 |
| Boys (total)..... | 29 |
| 7 to 10 years..... | 22 |
| 11 to 14 years..... | 7 |

Figures 3 and 4 show the weight, height, and weight-height index of the children with defective teeth, plotted on logarithmic scales to show the trend of growth over the ten months involved.

The fact that the corrective dental work in most cases extended over a period of time would tend toward a less clear-cut distinction between the period before and the period after the correction than in the case of the tonsil and adenoid operations. The time the correction of the defects was begun was taken as the dividing line, and in some cases the completion of the dental work was much later. But there are some differences which appear to be significant, par-

ticularly in the weight and weight-height index for girls in both age groups. In other cases the differences are small.

In order to show the differences more accurately, straight lines (on logarithmic paper) were fitted to the actual data in the manner

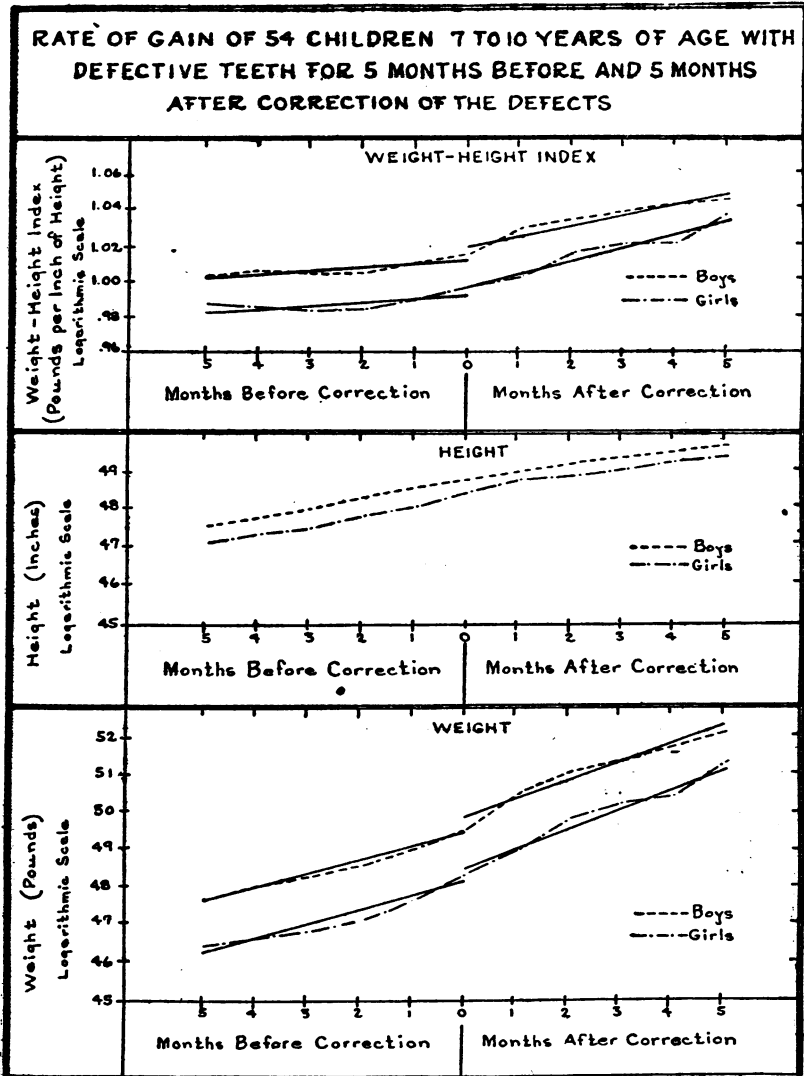


Fig. 3.

described in the discussion of the adenoid and tonsil cases. Table IX shows the percentage increase per month before and after the corrections in the same way as Table VI shows it for the adenoids and tonsils.

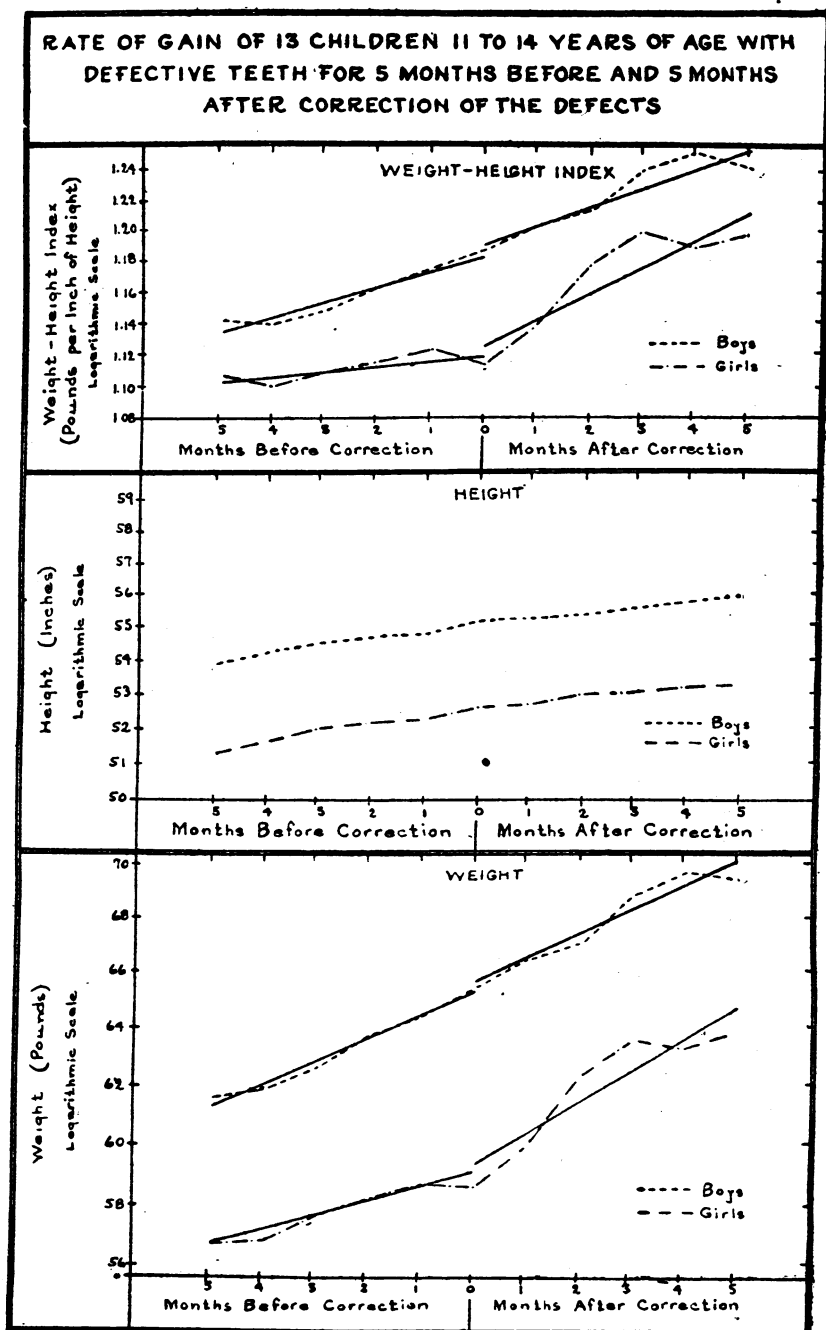


Fig. 1.

TABLE IX.—Average percentage increase per month in weight, in height, and in the weight-height index, for a group of 67 children with defective teeth, for 5 months before and 5 months after correction of the defects was begun.

| Age group. | Percentage increase per month in— | | | | | |
|-----------------------|-----------------------------------|-------|---------|-------|----------------------|-------|
| | Weight. | | Height. | | Weight-height index. | |
| | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. |
| 7 to 10 years: | | | | | | |
| Before operation..... | 0.78 | 0.75 | 0.58 | 0.53 | 0.18 | 0.22 |
| After operation..... | 1.17 | 1.00 | .43 | .41 | .74 | .58 |
| 11 to 14 years: | | | | | | |
| Before operation..... | .76 | 1.30 | .50 | .46 | .26 | .85 |
| After operation..... | 1.75 | 1.37 | .29 | .31 | 1.46 | 1.05 |

PHYSICAL DEFECTS AMONG 8,887 UNDERWEIGHT SCHOOL CHILDREN.¹

Early in 1922 the medical inspectors of the department of health of Detroit completed the physical inspection of 8,887 school children who were found to be 15 per cent or more underweight according to the measurements made during September and October, 1921, on the school children of Detroit. This number found to be 15 per cent or more underweight is 7.9 per cent of the school children of Detroit.

Because of the great variations frequently met with in the reported prevalence of physical defects among school children, an effort was made to secure uniformity in reporting. In some instances, it was stated, 30 per cent of tonsillar defects had been reported for one school by one investigator, and only 5 per cent for another school a few blocks away by another investigator—a variation due to the difference in the interpretations of medical inspectors. In order to secure uniformity and therefore make records for different schools comparable, the department of health devised a simple plan of designating various degrees of defects, and arranged for the examiners to work in teams of three each. These men examined independently the same groups of children, reporting the defects found in terms of the definite graded scales, and they met at intervals to check up their independent work.

One physical defect or more was found among 6,662, or 74.9 per cent, of the 8,887 underweight children. No outstanding physical defect was found among 2,225, or 25.1 per cent.

The number of each of the more important defects per 1,000 children was given as follows:

¹ Taken from the Weekly Health Review, Feb. 18, 1922, published by the Department of Health of Detroit.

Number
per 1,000
children.

| | |
|--|-----|
| Tonsils—enlarged or infected..... | 508 |
| Defective teeth..... | 227 |
| Anemic..... | 73 |
| Faulty vision..... | 93 |
| Mouth breathing..... | 92 |
| Heart—abnormal (recommended for further more careful examination)..... | 48 |
| Lungs—suspicious (recommended for further more careful examination)..... | 31 |
| Defective hearing..... | 20 |
| Enlarged thyroid..... | 29 |
| Enlarged anterior cervical glands..... | 11 |
| Skin diseases..... | 11 |
| Orthopedic defects..... | 6 |
| Deformed palate..... | 1 |

VACCINATION HISTORIES OF SMALLPOX CASES, 1921.

The following table gives the vaccination histories of smallpox patients as reported to the Public Health Service by the State health officers. This information was furnished by eight States.

The total number of cases for which the histories were given was 22,944, of which 63.5 per cent had never been successfully vaccinated; 4.6 per cent had been vaccinated more than 7 years preceding the attack; 1.8 per cent had been vaccinated within 7 years of the attack; and in 30.1 per cent of the cases the vaccination status was not obtained or was uncertain.

Vaccination history of smallpox cases, 1921.

| State. | New cases reported. | Deaths. | Vaccination history of cases. | | | |
|--------------------|---------------------|---------|--|--|---------------------------------------|--|
| | | | Number vaccinated within 7 years preceding attack. | Number last vaccinated more than 7 years preceding attack. | Number never successfully vaccinated. | Vaccination history not obtained or uncertain. |
| California..... | 5,554 | ..... | 48 | 339 | 5,115 | 52 |
| Florida..... | 1,361 | ..... | 27 | 22 | 461 | 851 |
| Kansas..... | 4,627 | ..... | 118 | 154 | 1,982 | 2,373 |
| Massachusetts..... | 37 | ..... | 2 | 13 | 17 | 5 |
| Minnesota..... | 9,177 | ..... | 179 | 464 | 5,077 | 3,457 |
| Montana..... | 1,474 | ..... | 6 | 35 | 1,416 | 17 |
| New Mexico..... | 110 | ..... | 9 | 1 | 55 | 45 |
| New York..... | 604 | ..... | 20 | 35 | 443 | 106 |
| Total..... | 22,944 | ..... | 409 | 1,063 | 14,566 | 6,906 |

SMALLPOX IN NOTTINGHAM, ENGLAND, IN 1921.¹

Prior to February 16, 1921, no case of smallpox had been recorded in Nottingham since July, 1912. The first case during 1921, in an unvaccinated girl 20 years of age, had its onset about February 16. The infection was acquired in a northern town. The patient was removed to the isolation hospital, and there was no spread of the disease. The next case appeared May 22. It was suspected that the source of this infection was the Long Eaton outbreak, which was in progress at that time. Long Eaton is less than 7 miles from Nottingham, and communication between the towns is free and constant. From the middle of May, 1921, until the latter part of January, 1922, there occurred in Nottingham 112 cases.

The disease was of mild type, a large proportion of the cases being described as of the "alastrim" or western type; yet it is stated that from the same strain there developed other cases of normal unattenuated variety. Several cases were extremely severe, but there was no fatality.

The protection against the complaint afforded by vaccination is indicated in the following table, which shows the cases in age groups among the vaccinated and unvaccinated. It is stated that the somewhat extended period of protection is probably explained by the low infectivity of an attenuated virus.

Smallpox in Nottingham, February, 1921, to January, 1922—Cases among vaccinated and unvaccinated arranged in age groups.

| Vaccinated. | | | | | | Unvaccinated. | | | | | |
|-------------|-----------|-----------|-----------|-----------|----------|---------------|-----------|-----------|-----------|-----------|----------|
| Under 10. | 10 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | Over 50. | Under 10. | 10 to 20. | 20 to 30. | 30 to 40. | 40 to 50. | Over 50. |
| | | | 9 | 5 | 7 | 50 | 25 | 12 | 2 | 1 | 2 |

All vaccinated persons attacked were over 30 years of age, whereas 87 out of 92, or 94.6 per cent, of the unvaccinated persons attacked were under 30 years of age.

It was stated that about half of the children of the city had been vaccinated and that none of those vaccinated contracted smallpox.

HEALTH DEPARTMENT PRACTICE OF LARGE AMERICAN CITIES.²

The need of authentic information on the practice of municipal health departments of American cities has long been recognized. A

¹ From a report by Philip Boobhyer, M. D., medical officer of health, city of Nottingham, in *The Medical Officer* for Apr. 1, 1922, p. 137.

² First Report of the Committee on Municipal Health Department Practice of the American Public Health Association, presented at the annual meeting of the association in New York City, November, 1921. Reprinted from the *American Journal of Public Health*, Vol. XII, Nos. 1 and 2, January and February, 1922.

great variety of procedures exists; the organization of health departments differs widely in different communities; the amount of money per capita spent on different branches of public-health work varies; and in other respects few standards are available for health officers who would pattern their departments after the best practice of American cities in order to achieve the best results.

In 1920 a committee was appointed by the American Public Health Association to carry out surveys and collect data on the current methods in large cities. The Metropolitan Life Insurance Co., the American Red Cross, and the United States Public Health Service cooperated in the work, which was done during 1920 and 1921. The committee consisted of the following members:

Prof. C.-E. A. Winslow (chairman), New Haven, Conn.

Dr. Charles V. Chapin, Providence, R. I.

Dr. Wade H. Frost, Washington, D. C.

Dr. Donald B. Armstrong, Framingham, Mass.

Dr. Allen W. Freeman, Columbus, Ohio.

Dr. Lewis R. Thompson, Washington, D. C.

Dr. Louis I. Dublin (secretary), New York City, N. Y.

The inquiry was limited to cities having a population of 100,000 or over according to the census of 1920, although a few smaller cities, in which the health activities justified it, were included. The survey covers a total of 83 cities.

The committee presents a summary of its findings under the following main divisions:

- I. The Health Board and the Health Officer.
- II. Expenditures of Health Departments.
- III. Control of Communicable Diseases.
- IV. Tuberculosis.
- V. Venereal Diseases.
- VI. Infant Hygiene.
- VII. School Medical Inspection.
- VIII. Industrial Hygiene.
- IX. Special Clinics.
- X. Public Health Nursing.
- XI. Public Health Laboratory.
- XII. Milk Inspection.
- XIII. Food and Drug Inspection.
- XIV. Sanitary Inspection and Sanitation.
- XV. Water Supply.
- XVI. Sewerage and Sewage Disposal.
- XVII. Publicity and Public Health Education.
- XVIII. Vital Statistics.

The section on control of communicable diseases reports under the following heads: (1) Organization; (2) Notification; (3). Investiga-

tion and verification of cases; (4) Isolation; (5) Hospitalization; (6) Placarding; (7) Isolation period; (8) Terminal disinfection; (9) Control of contacts.

A striking feature in regard to the control of communicable diseases is the diversity of practice which leads to completely different methods of isolating the same disease in different communities. Hospitalization of communicable diseases is relatively incomplete in most cities. Two-thirds of the cities reporting still practice terminal fumigation, and many of the cities do not use available cultural methods for control of contacts.

As regards notification, typhoid fever, diphtheria, smallpox, scarlet fever, epidemic cerebrospinal meningitis, and poliomyelitis are reportable in all of the 83 cities. Mumps is not reportable in 4 cities, chicken pox is not reportable in 2, influenza not reportable in 5, pneumonia not reportable in 9, and malaria not reportable in 20 cities. Hookworm disease appears to be reportable in all of the southern cities but 4. The reporting of cases of tuberculosis is still exceedingly lax. Out of 66 cities for which data were secured on this point, 9 report less than 1 case per annual death, 28 report between 1 and 2 cases per death, 20 between 2 and 3 cases per death, and 9 more than 3 cases per death annually. It is stated that the best cities in this regard are Chicago, Flint, and Schenectady, with 4.1, 4.4, and 4.8 cases per death, respectively.

The information contained in this preliminary report of the committee should be of interest to all municipal health officers. The pamphlet may be had from the American Public Health Association for 20 cents a copy. A more complete report is to be published in book form and will be issued sometime during the latter part of 1922.

COURT DECISIONS.

TEACHER ENTITLED TO SALARY WHEN SCHOOL IS CLOSED DURING EPIDEMIC.

The Supreme Court of Illinois has decided¹ that where a school was closed by order of the State board of health on account of an influenza epidemic a teacher may recover her salary for the time during which the school was closed, the teacher being ready, able, and willing to teach and there being no provision in the contract covering such a contingency.

In this connection reference is made to the note on the case of Gregg School Tp., Morgan County *v.* Hinshaw, 132 N. E. 586, published in the Public Health Reports of February 3, 1922, page 240.

¹ Phelps *v.* School Dist. No. 109, Wayne County, 134 N. E. 312.

GEORGIA LAW REGULATING BARBERS HELD CONSTITUTIONAL.

The act regulating the occupation of barbers (Laws 1914, p. 75) as amended (Laws 1920, p. 109) has been held constitutional¹ by the Supreme Court of Georgia.

The act was attacked on the following grounds: (1) That it discriminated between persons engaged in the trade of barbering and persons engaged in other trades involving manual labor; (2) that it violated the provision of the State constitution requiring laws of a general nature to operate uniformly throughout the State because it was applicable only to barbers in cities or towns having populations in excess of 5,000 inhabitants; (3) that it violated both the State and Federal Constitutions relative to the equal protection of the laws in that it exempted from its provisions barbers engaged within the State at the date of its approval and who had been practicing their trade for three years prior to its approval and permitted such barbers to continue their occupations by making an affidavit of these facts and paying the sum of \$2, while persons who had learned to practice such occupation without the State were required to pay the sum of \$5 and to submit to an examination; and (4) that the classification of the towns and cities provided in the act had no reasonable relation to the subject matter of the act and was arbitrary and capricious. The supreme court rejected all of these contentions.

DEATHS DURING WEEK ENDED APRIL 8, 1922.

Summary of information received by telegraph from industrial insurance companies for week ended April 8, 1922, and corresponding week, 1921. (From the Weekly Health Index, April 11, 1922, issued by the Bureau of the Census, Department of Commerce.)

| | Week ended Apr. 8, 1922. | Corresponding week, 1921. |
|--|-----------------------------|------------------------------|
| Policies in force..... | 48, 931, 741 | 46, 605, 524 |
| Number of death claims..... | 10, 113 | 9, 592 |
| Death claims per 1,000 policies in force, annual rate..... | 10.8 | 10.8 |

¹ Cooper et al. v. Rollins et al., 110 S. E. 726.

Deaths from all causes in certain large cities of the United States during the week ended April 8, 1922, infant mortality, annual death rate, and comparison with corresponding week of 1921. (From the Weekly Health Index, April 11, 1922, issued by the Bureau of the Census, Department of Commerce.)

| City. | Estimated population July 1, 1921. | Week ended Apr. 8, 1922. | | Annual death rate per 1,000, corresponding week, 1921. | Deaths under 1 year. | | Infant mortality rate, week ended Apr. 8, 1922. ¹ |
|---------------------------|------------------------------------|--------------------------|--------------------------|--|--------------------------|---------------------------|--|
| | | Total deaths. | Death rate. ¹ | | Week ended Apr. 8, 1922. | Corresponding week, 1921. | |
| Total..... | 27,356,942 | 7,585 | 14.5 | 13.6 | 1,098 | 1,021 | ..... |
| Akron, Ohio..... | * 208,435 | 34 | 8.5 | 8.9 | 13 | 4 | 138 |
| Albany, N. Y..... | 115,071 | 45 | 20.4 | 20.8 | 6 | 4 | 135 |
| Atlanta, Ga..... | * 220,047 | 75 | 17.8 | 15.3 | 10 | 9 | ..... |
| Baltimore, Md..... | 750,864 | 226 | 15.7 | 15.5 | 23 | 30 | 65 |
| Birmingham, Ala..... | 186,133 | 46 | 12.9 | 16.0 | 5 | 7 | ..... |
| Boston, Mass..... | 757,634 | 253 | 17.4 | 15.6 | 42 | 29 | 112 |
| Bridgeport, Conn..... | * 143,555 | 30 | 10.9 | 13.2 | 6 | 9 | 75 |
| Buffalo, N. Y..... | 519,608 | 179 | 18.0 | 14.5 | 39 | 27 | 153 |
| Cambridge, Mass..... | 110,444 | 23 | 10.9 | 9.9 | 4 | 4 | 73 |
| Camden, N. J..... | 119,672 | 40 | 17.4 | 13.9 | 9 | 5 | 138 |
| Chicago, Ill..... | 2,780,655 | 729 | 13.7 | 11.7 | 129 | 95 | ..... |
| Cincinnati, Ohio..... | 403,418 | 124 | 16.0 | 14.6 | 15 | 10 | 100 |
| Cleveland, Ohio..... | 831,138 | 186 | 11.7 | 12.2 | 33 | 25 | 85 |
| Columbus, Ohio..... | 245,358 | 79 | 16.8 | 13.8 | 8 | 7 | 84 |
| Dallas, Tex..... | 165,282 | 41 | 12.9 | 15.5 | 4 | 6 | ..... |
| Dayton, Ohio..... | * 152,559 | 43 | 14.7 | 8.6 | 3 | 4 | 51 |
| Denver, Colo..... | 265,152 | 89 | 17.6 | 16.2 | 5 | 10 | ..... |
| Detroit, Mich..... | 1,070,450 | 244 | 11.9 | 11.1 | 45 | 52 | 87 |
| Fall River, Mass..... | 120,668 | 30 | 13.0 | 15.1 | 6 | 7 | 84 |
| Fort Worth, Tex..... | 111,423 | 21 | 9.8 | ..... | 1 | ..... | ..... |
| Grand Rapids, Mich..... | 141,197 | 43 | 15.9 | 10.0 | 10 | 6 | 167 |
| Houston, Tex..... | 144,340 | 28 | 10.1 | 14.8 | 2 | 11 | ..... |
| Indianapolis, Ind..... | 325,632 | 96 | 15.4 | 14.6 | 12 | 10 | 91 |
| Jersey City, N. J..... | 302,788 | 81 | 13.9 | 17.6 | 16 | 16 | 102 |
| Kansas City, Kans..... | 103,884 | 27 | 13.6 | 13.6 | 3 | 2 | 69 |
| Kansas City, Mo..... | 336,157 | 116 | 18.0 | 13.5 | 11 | 9 | ..... |
| Los Angeles, Calif..... | 614,160 | 179 | 15.2 | 14.8 | 22 | 13 | 91 |
| Louisville, Ky..... | 236,083 | 59 | 13.0 | 15.0 | 9 | 3 | 97 |
| Lowell, Mass..... | 113,757 | 19 | 8.7 | 14.2 | 7 | 8 | 118 |
| Memphis, Tenn..... | 165,656 | 34 | 10.7 | 15.7 | 1 | 7 | ..... |
| Milwaukee, Wis..... | 468,386 | 126 | 14.0 | 11.9 | 21 | 29 | 103 |
| Minneapolis, Minn..... | 392,815 | 101 | 13.4 | 12.9 | 11 | 9 | 60 |
| Nashville, Tenn..... | 122,036 | 34 | 14.5 | 18.4 | 3 | 6 | ..... |
| New Bedford, Mass..... | 125,012 | 32 | 13.3 | 12.5 | 11 | 4 | 164 |
| New Haven, Conn..... | 167,007 | 50 | 15.6 | 15.9 | 8 | 4 | 98 |
| New Orleans, La..... | 394,657 | 140 | 18.5 | 17.4 | 17 | 23 | ..... |
| New York, N. Y..... | 5,751,867 | 1,619 | 14.7 | 13.0 | 210 | 224 | 81 |
| Newark, N. J..... | 424,885 | 108 | 13.3 | 12.5 | 14 | 13 | 62 |
| Norfolk, Va..... | 121,260 | 20 | 8.6 | 10.3 | 4 | 3 | 71 |
| Oakland, Calif..... | 226,472 | 51 | 11.7 | 9.9 | 3 | 9 | 38 |
| Omaha, Nebr..... | 197,066 | 60 | 15.9 | 19.1 | 10 | 9 | 108 |
| Paterson, N. J..... | 137,463 | 36 | 13.7 | 19.7 | 3 | 7 | 46 |
| Philadelphia, Pa..... | 1,866,212 | 536 | 15.0 | 13.9 | 70 | 84 | 83 |
| Pittsburgh, Pa..... | 602,452 | 198 | 17.1 | 17.9 | 37 | 28 | 118 |
| Portland, Oreg..... | 264,859 | 62 | 12.2 | 11.4 | 6 | 4 | 59 |
| Providence, R. I..... | 239,645 | 75 | 16.3 | 13.5 | 14 | 7 | 111 |
| Richmond, Va..... | 175,686 | 69 | 20.5 | 14.8 | 13 | 4 | 158 |
| Rochester, N. Y..... | 305,229 | 97 | 16.6 | 11.6 | 16 | 6 | 123 |
| St. Louis, Mo..... | 786,164 | 217 | 14.4 | 10.7 | 33 | 12 | ..... |
| St. Paul, Minn..... | 237,781 | 58 | 12.7 | 11.2 | 6 | 3 | 56 |
| Salt Lake City, Utah..... | 121,595 | 30 | 12.9 | 11.1 | 6 | 3 | 89 |
| San Francisco, Calif..... | 520,546 | 142 | 14.2 | 18.4 | 3 | 10 | 17 |
| Seattle, Wash..... | * 315,312 | 62 | 10.3 | 11.8 | 14 | 9 | 118 |
| Spokane, Wash..... | 104,442 | 27 | 13.5 | 14.0 | 2 | 4 | 43 |
| Springfield, Mass..... | 135,877 | 29 | 11.1 | 13.0 | 4 | 6 | 60 |
| Syracuse, N. Y..... | 177,265 | 52 | 15.3 | 10.9 | 9 | 5 | 108 |
| Toledo, Ohio..... | 253,696 | 61 | 12.5 | 15.2 | 7 | 18 | 68 |
| Trenton, N. J..... | 122,760 | 43 | 18.3 | 11.9 | 4 | 4 | 61 |
| Washington, D. C..... | * 437,571 | 123 | 14.7 | 14.8 | 16 | 20 | 92 |
| Wilmingon, Del..... | 113,408 | 30 | 13.8 | 13.8 | 5 | 9 | 97 |
| Worcester, Mass..... | 184,972 | 57 | 16.1 | 19.2 | 12 | 9 | 130 |
| Yonkers, N. Y..... | 103,324 | 21 | 10.6 | 17.7 | 7 | 7 | 146 |

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1921. Cities left blank are not in the registration area for births.

³ Enumerated population Jan. 1, 1920.

⁴ Estimated population July 1, 1922.

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended April 15, 1922.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

| ALABAMA. | | Cases. | CALIFORNIA. | | Cases. |
|-----------------------|-----|--------|---|-----|--------|
| Chicken pox..... | 43 | | Diphtheria..... | 126 | |
| Diphtheria..... | 4 | | Influenza..... | 134 | |
| Dysentery..... | 2 | | Lethargic encephalitis—Los Angeles..... | 3 | |
| Hookworm disease..... | 35 | | Measles..... | 30 | |
| Influenza: | | | Polioomyelitis—Pasadena..... | 1 | |
| Barbour County..... | 24 | | Scarlet fever..... | 89 | |
| Houston County..... | 20 | | Smallpox..... | 40 | |
| Marion County..... | 19 | | Typhoid fever..... | 9 | |
| Pike County..... | 21 | | | | |
| Scattering..... | 19 | | | | |
| Malaria..... | 12 | | | | |
| Measles..... | 10 | | | | |
| Pellagra..... | 2 | | | | |
| Pneumonia..... | 9 | | | | |
| Scarlet fever..... | 1 | | | | |
| Smallpox: | | | | | |
| Mobile..... | 24 | | | | |
| Scattering..... | 6 | | | | |
| Tetanus..... | 1 | | | | |
| Tuberculosis..... | 8 | | | | |
| Typhoid fever..... | 6 | | | | |
| Whooping cough..... | 1 | | | | |
| ARKANSAS. | | | COLORADO. | | |
| Chicken pox..... | 27 | | (Exclusive of Denver.) | | |
| Diphtheria..... | 1 | | Chicken pox..... | 7 | |
| Influenza..... | 115 | | Diphtheria..... | 23 | |
| Malaria..... | 57 | | Influenza..... | 10 | |
| Measles..... | 19 | | Measles..... | 4 | |
| Pellagra..... | 9 | | Mumps..... | 6 | |
| Scarlet fever..... | 4 | | Pneumonia..... | 10 | |
| Smallpox..... | 4 | | Scarlet fever..... | 20 | |
| Trachoma..... | 1 | | Smallpox..... | 9 | |
| Tuberculosis..... | 12 | | Trachoma..... | 3 | |
| Typhoid fever..... | 4 | | Tuberculosis..... | 328 | |
| Whooping cough..... | 3 | | | | |
| | | | CONNECTICUT. | | |
| | | | Cerebrospinal meningitis..... | 3 | |
| | | | Chicken pox..... | 35 | |
| | | | Conjunctivitis (infectious)..... | 3 | |
| | | | Diphtheria: | | |
| | | | Bridgeport..... | 10 | |
| | | | Scattering..... | 39 | |
| | | | German measles..... | 17 | |
| | | | Influenza..... | 287 | |
| | | | Lethargic encephalitis..... | 4 | |
| | | | Measles: | | |
| | | | Bridgeport..... | 13 | |
| | | | Darien..... | 8 | |

CONNECTICUT—continued.

| Measles—Continued. | Cases. |
|-------------------------------|--------|
| Hartford..... | 51 |
| New Haven..... | 37 |
| New London..... | 18 |
| Norwich..... | 9 |
| Stamford..... | 21 |
| West Hartford..... | 8 |
| Windsor..... | 12 |
| Scattering..... | 39 |
| Mumps..... | 52 |
| Pneumonia (lobar)..... | 61 |
| Scarlet fever: | |
| New Haven..... | 10 |
| Scattering..... | 29 |
| Smallpox..... | 9 |
| Tuberculosis (all forms)..... | 30 |
| Typhoid fever..... | 2 |
| Whooping cough..... | 31 |

DELAWARE.

| | |
|---------------------|----|
| Chicken pox..... | 10 |
| Diphtheria..... | 2 |
| Influenza..... | 2 |
| Malaria..... | 3 |
| Measles..... | 2 |
| Pneumonia..... | 2 |
| Scarlet fever: | |
| Wilmington..... | 41 |
| Scattering..... | 14 |
| Tuberculosis..... | 11 |
| Whooping cough..... | 1 |

FLORIDA.

| | |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 1 |
| Diphtheria..... | 18 |
| Influenza..... | 13 |
| Malaria..... | 8 |
| Pneumonia..... | 47 |
| Pollomyelitis..... | 1 |
| Scarlet fever..... | 2 |
| Smallpox..... | 16 |
| Trachoma..... | 1 |
| Typhoid fever..... | 8 |

GEORGIA.

| | |
|-------------------------------|----|
| Chicken pox..... | 20 |
| Diphtheria..... | 2 |
| Dysentery (amebic)..... | 1 |
| Dysentery (bacillary)..... | 2 |
| Hookworm disease..... | 1 |
| Influenza..... | 77 |
| Malaria..... | 25 |
| Measles..... | 1 |
| Mumps..... | 10 |
| Pneumonia..... | 16 |
| Scarlet fever..... | 8 |
| Septic sore throat..... | 2 |
| Smallpox..... | 22 |
| Tetanus..... | 1 |
| Tuberculosis (all forms)..... | 7 |
| Typhoid fever..... | 7 |
| Whooping cough..... | 1 |

ILLINOIS.

| | |
|-------------------------------|-----|
| Cerebrospinal meningitis..... | 2 |
| Diphtheria: | |
| Chicago..... | 113 |
| Scattering..... | 74 |

ILLINOIS—continued.

| Influenza..... | Cases. |
|-------------------------|--------|
| 57 | |
| Lethargic encephalitis: | |
| Chicago..... | 2 |
| Scattering..... | 2 |
| Pneumonia..... | 398 |
| Scarlet fever..... | 159 |
| Smallpox..... | 39 |
| Typhoid fever..... | 7 |
| Whooping cough..... | 106 |

INDIANA.

| | |
|---------------------------|----|
| Cerebrospinal meningitis: | |
| St. Joseph County..... | 1 |
| Vigo County..... | 2 |
| Diphtheria..... | 30 |
| Rabies in animals: | |
| Green County..... | 1 |
| Putnam County..... | 1 |
| Scarlet fever..... | 59 |
| Smallpox..... | 31 |
| Typhoid fever..... | 4 |

IOWA.

| | |
|--------------------|----|
| Diphtheria..... | 16 |
| Scarlet fever..... | 32 |
| Smallpox..... | 16 |

KANSAS.

| | |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 2 |
| Chicken pox..... | 56 |
| Diphtheria..... | 27 |
| Influenza..... | 27 |
| Measles..... | 10 |
| Mumps..... | 32 |
| Pneumonia..... | 11 |
| Scarlet fever..... | 61 |
| Smallpox..... | 20 |
| Tetanus..... | 2 |
| Trachoma..... | 2 |
| Tuberculosis..... | 43 |
| Typhoid fever..... | 3 |
| Whooping cough..... | 15 |

LOUISIANA.

| | |
|--------------------|----|
| Diphtheria..... | 12 |
| Influenza..... | 83 |
| Measles..... | 9 |
| Scarlet fever..... | 5 |
| Smallpox..... | 31 |
| Typhoid fever..... | 16 |

MAINE.

| | |
|----------------------------|----|
| Chicken pox..... | 2 |
| Diphtheria..... | 6 |
| Influenza..... | 4 |
| Measles..... | 1 |
| Mumps..... | 2 |
| Ophthalmia neonatorum..... | 1 |
| Paratyphoid fever..... | 1 |
| Pneumonia..... | 3 |
| Scarlet fever..... | 12 |
| Smallpox..... | 1 |
| Tuberculosis..... | 5 |
| Typhoid fever..... | 2 |

MARYLAND.¹

| | Cases. |
|-------------------------------|--------|
| Cerebrospinal meningitis..... | 1 |
| Chicken pox..... | 75 |
| Diphtheria..... | 30 |
| Dysentery..... | 2 |
| Gorman measles..... | 3 |
| Influenza..... | 204 |
| Malaria..... | 1 |
| Measles..... | 270 |
| Mumps..... | 152 |
| Pneumonia (all forms)..... | 107 |
| Scarlet fever..... | 71 |
| Septic sore throat..... | 1 |
| Tuberculosis..... | 54 |
| Typhoid fever..... | 1 |
| Whooping cough..... | 33 |

MASSACHUSETTS.

| | |
|-----------------------------------|-----|
| Cerebrospinal meningitis..... | 3 |
| Chicken pox..... | 104 |
| Conjunctivitis (suppurative)..... | 18 |
| Diphtheria..... | 141 |
| Dysentery..... | 1 |
| German measles..... | 23 |
| Influenza..... | 66 |
| Lethargic encephalitis..... | 14 |
| Measles..... | 876 |
| Mumps..... | 127 |
| Ophthalmia neonatorum..... | 25 |
| Pneumonia (lobar)..... | 149 |
| Scarlet fever..... | 182 |
| Septic sore throat..... | 2 |
| Trachoma..... | 3 |
| Tuberculosis (all forms)..... | 180 |
| Typhoid fever..... | 9 |
| Whooping cough..... | 104 |

MINNESOTA.

| | |
|---------------------|-----|
| Chicken pox..... | 9 |
| Diphtheria..... | 34 |
| Influenza..... | 7 |
| Measles..... | 79 |
| Pneumonia..... | 5 |
| Scarlet fever..... | 134 |
| Smallpox..... | 43 |
| Tuberculosis..... | 135 |
| Typhoid fever..... | 1 |
| Whooping cough..... | 4 |

MISSISSIPPI.

| | |
|--------------------|---|
| Diphtheria..... | 8 |
| Poliomyelitis..... | 1 |
| Scarlet fever..... | 2 |
| Smallpox..... | 9 |
| Typhoid fever..... | 7 |

MISSOURI.

| | |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 2 |
| Chicken pox..... | 25 |
| Diphtheria..... | 53 |
| Influenza..... | 44 |
| Measles..... | 29 |
| Mumps..... | 21 |
| Pneumonia..... | 24 |
| Scarlet fever..... | 42 |

MISSOURI—continued.

| | Cases. |
|---------------------|--------|
| Smallpox..... | 9 |
| Trachoma..... | 7 |
| Tuberculosis..... | 26 |
| Typhoid fever..... | 2 |
| Whooping cough..... | 17 |

MONTANA.

| | |
|--------------------|----|
| Diphtheria..... | 25 |
| Influenza..... | 9 |
| Scarlet fever..... | 12 |
| Smallpox..... | 13 |
| Typhoid fever..... | 2 |

NEBRASKA.

| | |
|---------------------|----|
| Chicken pox..... | 17 |
| Diphtheria..... | 14 |
| German measles..... | 2 |
| Influenza..... | 29 |
| Measles: | |
| Knox County..... | 11 |
| Lincoln..... | 27 |
| Omaha..... | 22 |
| Scattering..... | 25 |
| Mumps..... | 9 |
| Scarlet fever..... | 30 |
| Smallpox..... | 5 |
| Whooping cough..... | 1 |

NEW JERSEY.

| | |
|-------------------------------|-----|
| Cerebrospinal meningitis..... | 2 |
| Chicken pox..... | 126 |
| Diphtheria..... | 83 |
| Influenza..... | 31 |
| Malaria..... | 1 |
| Measles..... | 746 |
| Pneumonia..... | 126 |
| Poliomyelitis..... | 1 |
| Scarlet fever..... | 256 |
| Trachoma..... | 1 |
| Typhoid fever..... | 12 |
| Whooping cough..... | 73 |

NEW MEXICO.

| | |
|----------------------------|-----|
| Chicken pox..... | 3 |
| Conjunctivitis..... | 4 |
| Diphtheria..... | 12 |
| Influenza..... | 192 |
| Measles..... | 1 |
| Mumps..... | 1 |
| Ophthalmia neonatorum..... | 2 |
| Pneumonia..... | 18 |
| Scarlet fever..... | 6 |
| Trachoma..... | 2 |
| Tuberculosis..... | 14 |

NEW YORK.

(Exclusive of New York City.)

| | |
|-------------------------------|-----|
| Anthrax..... | 1 |
| Cerebrospinal meningitis..... | 1 |
| Diphtheria..... | 119 |
| Influenza..... | 250 |
| Lethargic encephalitis..... | 5 |
| Measles..... | 513 |

¹ Week ended Friday.

NEW YORK—continued.

| | Page. |
|---------------------|-------|
| Pneumonia..... | 406 |
| Polomyelitis..... | 3 |
| Scarlet fever..... | 262 |
| Tetanus..... | 1 |
| Typhoid fever..... | 24 |
| Whooping cough..... | 182 |

NORTH CAROLINA.

| | |
|-------------------------|-----|
| Chicken pox..... | 122 |
| Diphtheria..... | 29 |
| German measles..... | 1 |
| Measles..... | 38 |
| Scarlet fever..... | 25 |
| Septic sore throat..... | 1 |
| Smallpox..... | 32 |
| Typhoid fever..... | 12 |
| Whooping cough..... | 250 |

OREGON.

| | |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 1 |
| Chicken pox..... | 14 |
| Diphtheria: | |
| Portland..... | 8 |
| Scattering..... | 5 |
| Influenza..... | 13 |
| Measles..... | 2 |
| Mumps..... | 7 |
| Pneumonia..... | 11 |
| Scarlet fever..... | 13 |
| Septic sore throat..... | 14 |
| Smallpox: | |
| Portland..... | 15 |
| Scattering..... | 5 |
| Tuberculosis..... | 11 |
| Typhoid fever..... | 1 |
| Whooping cough..... | 3 |

SOUTH DAKOTA.

| | |
|-------------------------------|----|
| Cerebrospinal meningitis..... | 1 |
| Chicken pox..... | 7 |
| Diphtheria..... | 10 |
| Influenza..... | 10 |
| Measles..... | 3 |
| Pneumonia..... | 10 |
| Scarlet fever..... | 13 |
| Smallpox..... | 11 |
| Tuberculosis..... | 11 |
| Whooping cough..... | 1 |

TEXAS.

| | |
|--------------------|-----|
| Chicken pox..... | 76 |
| Diphtheria..... | 93 |
| Influenza..... | 113 |
| Measles..... | 119 |
| Pneumonia..... | 34 |
| Scarlet fever..... | 11 |
| Smallpox..... | 28 |
| Typhoid fever..... | 6 |

¹ Deaths.

VERMONT.

| | Page. |
|---------------------|-------|
| Chicken pox..... | 13 |
| Diphtheria..... | 1 |
| Influenza..... | 11 |
| Measles..... | 12 |
| Mumps..... | 9 |
| Pneumonia..... | 8 |
| Scarlet fever..... | 30 |
| Whooping cough..... | 15 |

WASHINGTON.

| | |
|-------------------------------------|----|
| Chicken pox..... | 50 |
| Diphtheria: | |
| Prosser..... | 18 |
| Scattering..... | 19 |
| German measles..... | 1 |
| Lethargic encephalitis—Seattle..... | 1 |
| Measles..... | 4 |
| Mumps..... | 35 |
| Pneumonia..... | 1 |
| Scarlet fever..... | 19 |
| Smallpox: | |
| Spokane..... | 15 |
| Scattering..... | 26 |
| Tuberculosis..... | 13 |
| Whooping cough..... | 37 |

WEST VIRGINIA.

| | |
|--------------------|----|
| Diphtheria..... | 8 |
| Influenza..... | 32 |
| Scarlet fever..... | 17 |
| Smallpox..... | 3 |
| Typhoid fever..... | 3 |

WISCONSIN.

| | |
|-------------------------------|----|
| Milwaukee: | |
| Cerebrospinal meningitis..... | 2 |
| Chicken pox..... | 19 |
| Diphtheria..... | 10 |
| German measles..... | 2 |
| Influenza..... | 2 |
| Measles..... | 4 |
| Pneumonia..... | 10 |
| Scarlet fever..... | 4 |
| Tuberculosis..... | 8 |
| Typhoid fever..... | 1 |
| Whooping cough..... | 54 |
| Scattering: | |
| Chicken pox..... | 72 |
| Diphtheria..... | 54 |
| German measles..... | 10 |
| Influenza..... | 78 |
| Measles..... | 19 |
| Pneumonia..... | 8 |
| Scarlet fever..... | 85 |
| Smallpox..... | 36 |
| Trachoma..... | 5 |
| Tuberculosis..... | 46 |
| Typhoid fever..... | 8 |
| Whooping cough..... | 41 |

Delayed Reports for Week Ended April 8, 1922.

| COLORADO. | | LOUISIANA. | | Page. |
|-----------------------------|----|------------------------|--|-------|
| (Exclusive of Denver.) | | | | |
| Chicken pox..... | 15 | Diphtheria..... | | 15 |
| Diphtheria..... | 19 | Influenza..... | | 355 |
| Influenza..... | 21 | Scarlet fever..... | | 4 |
| Measles..... | 2 | Smallpox..... | | 37 |
| Mumps..... | 2 | Typhoid fever..... | | 5 |
| Pneumonia..... | 31 | | | |
| Scarlet fever..... | 34 | MAINE. | | |
| Septic sore throat..... | 1 | Chicken pox..... | | 11 |
| Smallpox..... | 4 | Diphtheria..... | | 3 |
| Tuberculosis..... | 33 | German measles..... | | 3 |
| Typhoid fever..... | 2 | Influenza..... | | 215 |
| Whooping cough..... | 2 | Measles..... | | 1 |
| | | Paratyphoid fever..... | | 1 |
| | | Pneumonia..... | | 15 |
| | | Scarlet fever..... | | 31 |
| | | Tuberculosis..... | | 12 |
| | | Typhoid fever..... | | 3 |
| | | Whooping cough..... | | 1 |
| DISTRICT OF COLUMBIA. | | | | |
| Chicken pox..... | 40 | | | |
| Diphtheria..... | 7 | | | |
| Influenza..... | 1 | | | |
| Lethargic encephalitis..... | 1 | | | |
| Measles..... | 5 | | | |
| Scarlet fever..... | 3 | | | |
| Smallpox..... | 1 | | | |
| Tuberculosis..... | 21 | | | |
| Whooping cough..... | 4 | | | |

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week.

| State. | Cerebrospinal meningitis. | Diphtheria. | Influenza. | Malaria. | Measles. | Pellagra. | Polymyositis. | Scarlet fever. | Smallpox. | Typhoid fever. |
|------------------------------------|---------------------------|-------------|------------|----------|----------|-----------|---------------|----------------|-----------|----------------|
| Arkansas (March, 1922)..... | 14 | 27 | 2,580 | 88 | 28 | 20 | 1 | 18 | 50 | 7 |
| Connecticut (March, 1922)..... | 1 | 271 | 1,680 | 776 | 776 | 3 | 1 | 358 | 114 | 11 |
| Florida (March, 1922)..... | 1 | 74 | 307 | 56 | 40 | 9 | 3 | 10 | 84 | 56 |
| Massachusetts (March, 1922)..... | 14 | 718 | 1,647 | 8 | 2,657 | 1 | 5 | 998 | 32 | 32 |
| Montana (December, 1921)..... | 6 | 58 | 3 | 14 | 14 | 2 | 2 | 141 | 183 | 13 |
| Montana (January, 1922)..... | 2 | 48 | 437 | 10 | 10 | 3 | 95 | 125 | 177 | 8 |
| Montana (February, 1922)..... | 2 | 74 | 699 | 348 | 348 | 14 | 3 | 288 | 92 | 8 |
| Nebraska (March, 1922)..... | 50 | 1,809 | 7,737 | 9,963 | 9,963 | 14 | 3 | 1,102 | 1 | 73 |
| New York (March, 1922)..... | 67 | 12 | 58 | 58 | 58 | 1 | 1 | 193 | 153 | 5 |
| North Dakota (January, 1922)..... | 6 | 245 | 549 | 185 | 185 | 2 | 2 | 169 | 94 | 85 |
| Vermont (March, 1922)..... | 1 | 131 | 2,178 | 190 | 190 | 3 | 3 | 83 | 26 | 33 |
| West Virginia (January, 1922)..... | 11 | 239 | 2,306 | 40 | 40 | 3 | 3 | 488 | 159 | 20 |
| Wisconsin (March, 1922)..... | 28 | 17 | 17 | 10 | 10 | | | 28 | 34 | 12 |
| Wyoming (January, 1922)..... | | | | | | | | | | |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922.

ANTHRAX.

| City. | Cases. | Deaths. |
|------------------|--------|---------|
| California: | | |
| Los Angeles..... | | 1 |

BERIBERI.

| | | |
|--------------------|---|---|
| California: | | |
| San Francisco..... | 1 | 1 |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

| City. | Median for previous years. | Week ended Apr. 1, 1922. | | City. | Median for previous years. | Week ended Apr. 1, 1922. | |
|------------------|----------------------------|--------------------------|---------|--------------------|----------------------------|--------------------------|---------|
| | | Cases. | Deaths. | | | Cases. | Deaths. |
| Alabama: | | | | Michigan: | | | |
| Birmingham..... | 0 | 1 | | Detroit..... | 1 | 1 | |
| Connecticut: | | | | Minnesota: | | | |
| Waterbury..... | 0 | 3 | 2 | Austin..... | | | 1 |
| Delaware: | | | | Nebraska: | | | |
| Wilmington..... | 0 | 1 | | Omaha..... | 0 | 1 | 1 |
| Georgia: | | | | New Jersey: | | | |
| Atlanta..... | 1 | | 1 | Pascale..... | 0 | 1 | 2 |
| Illinois: | | | | West Orange..... | 0 | 1 | |
| Chicago..... | 3 | | 1 | New York: | | | |
| Peoria..... | 0 | 1 | | New York..... | 11 | 17 | 7 |
| Indiana: | | | | Ohio: | | | |
| Muncie..... | 0 | | 1 | Martins Ferry..... | | 1 | 1 |
| Iowa: | | | | Salem..... | | 1 | 1 |
| Burlington..... | 0 | 1 | 1 | Oklahoma: | | | |
| Maine: | | | | Tulsa..... | 0 | 1 | |
| Sanford..... | 0 | 1 | 1 | Pennsylvania: | | | |
| Maryland: | | | | Philadelphia..... | 0 | 2 | |
| Baltimore..... | 1 | 1 | | Texas: | | | |
| Massachusetts: | | | | Waco..... | 0 | | 1 |
| Lawrence..... | 0 | 1 | | West Virginia: | | | |
| Lowell..... | 0 | | 1 | Charleston..... | 0 | | 1 |
| Springfield..... | 0 | | 1 | Wisconsin: | | | |
| | | | | Milwaukee..... | 1 | 2 | |

DIPHTHERIA.

See p. 964; also Telegraphic weekly reports from States, p. 952, and Monthly summaries by States, p. 956.

INFLUENZA.

| City. | Cases. | | Deaths, week ended Apr. 1, 1922. | City. | Cases. | | Deaths, week ended Apr. 1, 1922. |
|--------------------|--------------------------|--------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|----------------------------------|
| | Week ended Apr. 2, 1921. | Week ended Apr. 1, 1922. | | | Week ended Apr. 2, 1921. | Week ended Apr. 1, 1922. | |
| Alabama: | | | | District of Columbia: | | | |
| Birmingham..... | | 1 | 5 | Washington..... | 1 | 6 | 3 |
| Mobile..... | | | 1 | Florida: | | | |
| Montgomery..... | | 3 | 1 | Tampa..... | | 9 | |
| Arizona: | | | | Georgia: | | | |
| Tucson..... | | | 1 | Atlanta..... | | 43 | 6 |
| Arkansas: | | | | Augusta..... | | 20 | |
| Little Rock..... | | 12 | | Rome..... | | 106 | |
| California: | | | | Idaho: | | | |
| Alameda..... | 1 | 1 | | Pocatello..... | | | 2 |
| Berkeley..... | 5 | | | Illinois: | | | |
| Long Beach..... | 1 | 1 | | Bloomington..... | | | 1 |
| Los Angeles..... | 4 | 119 | 8 | Chicago..... | 11 | 63 | 16 |
| Oakland..... | 1 | 13 | 2 | Decatur..... | | 3 | 1 |
| Pasadena..... | | 3 | 1 | Oak Park..... | | 2 | |
| Riverside..... | | 21 | 1 | Quincy..... | | 4 | |
| San Diego..... | | 23 | 4 | Indiana: | | | |
| San Francisco..... | 13 | 8 | 3 | Indianapolis..... | | | 1 |
| Santa Ana..... | | 6 | | Kokomo..... | | | 1 |
| Stockton..... | | 1 | | Richmond..... | 1 | | |
| Connecticut: | | | | Terre Haute..... | | | 1 |
| Bridgeport..... | | 4 | 1 | Kansas: | | | |
| Hartford..... | 3 | 1 | | Salina..... | | 63 | |
| Meriden..... | | 4 | | Kentucky: | | | |
| New Britain..... | 1 | | | Lexington..... | | | 1 |
| Stamford..... | 1 | | | Louisville..... | | 4 | |
| Waterbury..... | | 2 | 1 | Louisiana: | | | |
| | | | | New Orleans..... | | 23 | 5 |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

INFLUENZA—Continued.

| City. | Cases. | | Deaths, week ended Apr. 1, 1922. | City. | Cases. | | Deaths, week ended Apr. 1, 1922. |
|-----------------------|-----------------------------------|-----------------------------------|--|----------------------------|-----------------------------------|-----------------------------------|--|
| | Week ended Apr. 2, 1921. | Week ended Apr. 1, 1922. | | | Week ended Apr. 2, 1921. | Week ended Apr. 1, 1922. | |
| Maine: | | | | New York—Continued. | | | |
| Portland..... | 6 | | | New York..... | 142 | 99 | 16 |
| Maryland: | | | | Niagara Falls..... | 1 | | |
| Baltimore..... | 28 | 47 | 7 | North Tonawanda..... | 4 | 2 | |
| Cumberland..... | 1 | 3 | | Ogdensburg..... | | | 3 |
| Massachusetts: | | | | Poughkeepsie..... | | 3 | |
| Belmont..... | | 1 | | Rochester..... | | | 1 |
| Beverly..... | | 1 | | Rome..... | | 6 | |
| Boston..... | 2 | 26 | | Saratoga Springs..... | 2 | 38 | |
| Braintree..... | | 3 | | Schenectady..... | 1 | 3 | 2 |
| Cambridge..... | | 1 | | Syracuse..... | | 3 | |
| Chelsea..... | 1 | | | Yonkers..... | 1 | | |
| Chicopee..... | | | 1 | North Carolina: | | | |
| Everett..... | | 2 | | Charlotte..... | | | 5 |
| Fall River..... | | | 1 | Salisbury..... | | | 1 |
| Haverhill..... | 2 | | | Wilmington..... | | 17 | 1 |
| Lawrence..... | | 1 | | Ohio: | | | |
| Lynn..... | 2 | | 1 | Akron..... | | 5 | |
| Malden..... | | 4 | | Barberton..... | | | 1 |
| Newburyport..... | | 1 | | Cambridge..... | | 1 | |
| North Adams..... | 5 | 1 | | Canton..... | 3 | | |
| Pittsfield..... | | 2 | | Cincinnati..... | | 1 | 7 |
| Saugus..... | 3 | | | Cleveland..... | | 11 | 1 |
| Springfield..... | | 3 | | Columbus..... | | 12 | 4 |
| Winthrop..... | | 2 | | Dayton..... | | 1 | |
| Michigan: | | | | East Cleveland..... | | 1 | |
| Detroit..... | 4 | 17 | 7 | Ironton..... | | 1 | |
| Grand Rapids..... | 1 | | | Springfield..... | | | 1 |
| Highland Park..... | 1 | 1 | | Toledo..... | | | 5 |
| Marquette..... | | 6 | | Youngstown..... | | 1 | 1 |
| Port Huron..... | | 2 | | Oregon: | | | |
| Minnesota: | | | | Portland..... | | 2 | 5 |
| Minneapolis..... | 4 | | 2 | Pennsylvania: | | | |
| Rochester..... | | 1 | 1 | Philadelphia..... | 8 | 14 | 15 |
| St. Paul..... | | | 1 | Rhode Island: | | | |
| Missouri: | | | | Providence..... | 1 | 2 | 2 |
| Kansas City..... | 2 | 9 | 5 | South Carolina: | | | |
| St. Joseph..... | | 1 | | Greenville..... | | 37 | |
| St. Louis..... | | 4 | 1 | South Dakota: | | | |
| Springfield..... | | | 1 | Sioux Falls..... | 1 | | |
| Montana: | | | | Tennessee: | | | |
| Billings..... | | | 1 | Memphis..... | | | 1 |
| Great Falls..... | | | 3 | Nashville..... | | | 3 |
| Missoula..... | | 1 | 2 | Texas: | | | |
| Nevada: | | | | Dallas..... | 3 | | 5 |
| Reno..... | | 14 | | El Paso..... | | | 3 |
| New Jersey: | | | | Fort Worth..... | | 3 | 3 |
| Clifton..... | 1 | 1 | | Houston..... | | 20 | 5 |
| Englewood..... | | 1 | 1 | Utah: | | | |
| East Orange..... | 1 | | | Provo..... | | 10 | |
| Garfield..... | | 1 | | Salt Lake City..... | 1 | | |
| Harrison..... | 5 | | | Virginia: | | | |
| Jersey City..... | 1 | 3 | | Danville..... | | | 3 |
| Kearny..... | 19 | 7 | | Lynchburg..... | | | 1 |
| Montclair..... | | 1 | | Petersburg..... | | 8 | |
| Newark..... | 17 | | | Roanoke..... | 1 | | 1 |
| Passaic..... | 1 | 8 | 1 | Washington: | | | |
| Paterson..... | 1 | | | Seattle..... | 1 | | |
| Trenton..... | 3 | 1 | 2 | West Virginia: | | | |
| West Orange..... | | 1 | | Charleston..... | | 3 | 1 |
| New York: | | | | Fairmont..... | | 3 | |
| Albany..... | | 36 | | Wisconsin: | | | |
| Auburn..... | | 2 | | Fond du Lac..... | | 2 | |
| Binghamton..... | | 39 | 2 | La Crosse..... | 2 | 1 | |
| Buffalo..... | 2 | 19 | 3 | Manitowoc..... | | 7 | |
| Cohoes..... | | 2 | | Milwaukee..... | 11 | | |
| Elmira..... | | 2 | 1 | Superior..... | | | 1 |
| Jamestown..... | | 3 | | Wyoming: | | | |
| Lockport..... | | 1 | | Casper..... | | 28 | |
| Mount Vernon..... | 11 | 2 | | | | | |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

LEPROSY.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|----------------|--------|---------|-------|--------|---------|
| Ohio: | | | | | |
| Cleveland..... | 1 | | | | |

LETHARGIC ENCEPHALITIS.

| | | | | | |
|--------------------|---|---|----------------|---|---|
| California: | | | New York: | | |
| San Francisco..... | 1 | | Yonkers..... | 1 | 1 |
| Illinois: | | | Texas: | | |
| Oak Park..... | | 1 | Galveston..... | | 1 |
| Nebraska: | | | | | |
| Omaha..... | | 1 | | | |

MALARIA.

| | | | | | |
|------------------|---|---|----------------|---|---|
| Arkansas: | | | Massachusetts: | | |
| Little Rock..... | 3 | | Boston..... | 1 | |
| Florida: | | | New York: | | |
| Tampa..... | 4 | | New York..... | 1 | 1 |
| Georgia: | | | Tennessee: | | |
| Atlanta..... | 1 | | Memphis..... | 1 | |
| Maryland: | | | Texas: | | |
| Baltimore..... | | 1 | Waco..... | | 1 |

MEASLES.

See p. 964; also Telegraphic weekly reports from States, p. 952, and Monthly summaries by States, p. 956.

PELLAGRA.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|-----------------|--------|---------|-----------------|--------|---------|
| Alabama: | | | South Carolina: | | |
| Birmingham..... | 1 | | Charleston..... | | 1 |
| Montgomery..... | | 1 | Tennessee: | | |
| Georgia: | | | Memphis..... | | 1 |
| Augusta..... | 1 | | Nashville..... | 1 | |

PNEUMONIA (ALL FORMS).

| | | | | | |
|-----------------------|----|----|-----------------------|-----|----|
| Alabama: | | | Delaware: | | |
| Birmingham..... | | 6 | Wilmington..... | | 7 |
| Montgomery..... | | 4 | District of Columbia: | | |
| Arizona: | | | Washington..... | | 15 |
| Tucson..... | | 10 | Florida: | | |
| Arkansas: | | | Tampa..... | | 2 |
| Fort Smith..... | | 3 | Georgia: | | |
| Little Rock..... | 1 | | Atlanta..... | | 26 |
| California: | | | Augusta..... | 3 | |
| Alameda..... | 1 | | Brunswick..... | | 1 |
| Bakersfield..... | | 1 | Rome..... | 4 | |
| Eureka..... | 1 | | Savannah..... | | 5 |
| Long Beach..... | 2 | 1 | Illinois: | | |
| Los Angeles..... | 53 | 19 | Aurora..... | | 4 |
| Oakland..... | 5 | 4 | Bloomington..... | | 2 |
| Pasadena..... | 2 | | Chicago..... | 294 | 49 |
| Sacramento..... | | 4 | Cicero..... | 3 | |
| San Bernardino..... | | 1 | Decatur..... | 8 | 1 |
| San Diego..... | | 1 | Ea. St. Louis..... | | 1 |
| San Francisco..... | 14 | 5 | Elgin..... | | 1 |
| Santa Ana..... | | 1 | Evanston..... | 6 | |
| Stockton..... | | 4 | Forest Park..... | 1 | |
| Colorado: | | | Freeport..... | 2 | |
| Colorado Springs..... | | 1 | Galesburg..... | 2 | |
| Greeley..... | | 2 | Jacksonville..... | | 3 |
| Connecticut: | | | Kewanee..... | 1 | |
| Bridgeport..... | 7 | 2 | La Salle..... | 1 | |
| Hartford..... | 6 | 1 | Oak Park..... | | 2 |
| Meriden..... | 2 | | Peoria..... | | 5 |
| New London..... | | 2 | Quincy..... | 5 | 2 |
| Norwalk..... | | 1 | Rockford..... | | 1 |
| Waterbury..... | 10 | 7 | Springfield..... | 2 | |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

PNEUMONIA (ALL FORMS)—Continued.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|-----------------------|--------|---------|----------------------------|--------|---------|
| Indiana: | | | Michigan—Continued. | | |
| Crawfordsville..... | | 2 | Highland Park..... | 10 | 2 |
| East Chicago..... | | 3 | Ishpeming..... | | 2 |
| Fort Wayne..... | | 2 | Jackson..... | | 2 |
| Gary..... | | 1 | Kalamazoo..... | 1 | |
| Hammond..... | | 3 | Marquette..... | 3 | |
| Indianapolis..... | | 5 | Pontiac..... | 3 | |
| Kokomo..... | | 2 | Port Huron..... | 9 | 1 |
| South Bend..... | | 2 | Saginaw..... | | 4 |
| Iowa: | | | Sault Ste. Marie..... | | 2 |
| Burlington..... | 2 | | Minnesota: | | |
| Kansas: | | | Austin..... | | 2 |
| Coffeyville..... | 2 | | Duluth..... | 2 | 1 |
| Fort Scott..... | | 1 | Minneapolis..... | | 10 |
| Kansas City..... | 6 | | St. Paul..... | | 6 |
| Parsons..... | | 1 | Winona..... | 2 | |
| Topeka..... | 4 | 2 | Missouri: | | |
| Wichita..... | | 3 | Kansas City..... | 20 | 10 |
| Kentucky: | | | St. Joseph..... | | 4 |
| Covington..... | | 4 | Springfield..... | | 5 |
| Lexington..... | 3 | | Montana: | | |
| Louisville..... | 17 | 7 | Anaconda..... | | 12 |
| Louisiana: | | | Billings..... | | 1 |
| New Orleans..... | 15 | 12 | Butte..... | | 1 |
| Maine: | | | Great Falls..... | | 2 |
| Auburn..... | | 1 | Missoula..... | 4 | 3 |
| Bangor..... | 1 | | Nebraska: | | |
| Biddeford..... | | 1 | Lincoln..... | | 3 |
| Lewiston..... | 3 | 1 | Omaha..... | | 5 |
| Portland..... | | 3 | Nevada: | | |
| Sanford..... | | 4 | Reno..... | | 1 |
| Maryland: | | | New Hampshire: | | |
| Baltimore..... | 104 | 52 | Concord..... | | 2 |
| Cumberland..... | | 2 | New Jersey: | | |
| Massachusetts: | | | Bayonne..... | 1 | |
| Arlington..... | 1 | | Belleville..... | 3 | |
| Attleboro..... | | 1 | Bloomfield..... | 3 | |
| Belmont..... | 1 | | Clifton..... | 1 | |
| Beverly..... | 1 | | Elizabeth..... | | 5 |
| Boston..... | 23 | 34 | Garfield..... | | 1 |
| Brookline..... | | 2 | Hoboken..... | | 2 |
| Cambridge..... | 17 | 10 | Jersey City..... | 12 | |
| Chelsea..... | | 3 | Kearny..... | | 3 |
| Chicopee..... | | 2 | Montclair..... | | 2 |
| Canton..... | | 2 | Orange..... | 14 | 2 |
| Easthampton..... | 4 | | Passaic..... | 6 | 1 |
| Everett..... | 1 | | Paterson..... | 4 | |
| Fall River..... | | 6 | Plainfield..... | 4 | 1 |
| Frammingham..... | | 5 | Rahway..... | | 1 |
| Greenfield..... | | 2 | Summit..... | | 1 |
| Haverhill..... | 6 | | Trenton..... | 5 | 4 |
| Holyoke..... | 5 | 2 | West Hoboken..... | 1 | |
| Lawrence..... | 2 | 1 | West New York..... | | 3 |
| Leominster..... | 1 | | West Orange..... | 4 | |
| Lowell..... | | 3 | New York: | | |
| Lynn..... | 3 | 2 | Albany..... | 17 | |
| Malden..... | | 5 | Binghamton..... | 20 | 6 |
| Melrose..... | | 3 | Buffalo..... | 105 | 28 |
| Methuen..... | | 2 | Cohoes..... | 2 | |
| New Bedford..... | | 10 | Elmira..... | 10 | 5 |
| Newton..... | | 2 | Geneva..... | | 1 |
| Pittsfield..... | 3 | 1 | Glens Falls..... | | 2 |
| Plymouth..... | | 1 | Hudson..... | 1 | |
| Quincy..... | | 1 | Jamestown..... | 1 | |
| Salem..... | 3 | 1 | Lackawanna..... | 5 | 4 |
| Somerville..... | | 5 | Lockport..... | 6 | 1 |
| Southbridge..... | 1 | | Middletown..... | | 2 |
| Springfield..... | 5 | 3 | Mount Vernon..... | 8 | 3 |
| Taunton..... | | 3 | Newburgh..... | 3 | 1 |
| Wakefield..... | 2 | 1 | New York..... | 545 | 237 |
| Waltham..... | | 2 | Niagara Falls..... | | 2 |
| Watertown..... | | 1 | North Tonawanda..... | | 2 |
| Webster..... | | 1 | Ogdensburg..... | | 2 |
| Westfield..... | | 1 | Olean..... | | 1 |
| Weymouth..... | | 2 | Peekskill..... | 2 | |
| Woburn..... | | 1 | Port Chester..... | 4 | 3 |
| Worcester..... | | 1 | Poughkeepsie..... | | 3 |
| Michigan: | | | Rochester..... | 19 | 15 |
| Detroit..... | 113 | 42 | Rome..... | 2 | 1 |
| Flint..... | | 2 | Saratoga Springs..... | 3 | |
| Grand Rapids..... | 13 | 2 | Schenectady..... | 6 | 3 |
| Hamtramck..... | 2 | | Syracuse..... | 20 | 5 |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

PNEUMONIA (ALL FORMS)—Continued.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|------------------------|--------|---------|-------------------------|--------|---------|
| New York—Continued. | | | Rhode Island—Continued. | | |
| Troy..... | | 6 | Newport..... | | 1 |
| White Plains..... | 2 | | Pawtucket..... | | 6 |
| Yonkers..... | 3 | 1 | Providence..... | | 10 |
| North Carolina: | | | South Carolina: | | |
| Charlotte..... | | 5 | Charleston..... | | 7 |
| Durham..... | | 1 | Greenville..... | | 2 |
| Raleigh..... | | 3 | South Dakota: | | |
| Rocky Mount..... | | 1 | Sioux Falls..... | | 3 |
| Wilmington..... | 7 | | Tennessee: | | |
| Ohio: | | | Memphis..... | | 6 |
| Akron..... | 10 | | Nashville..... | | 5 |
| Alliance..... | | 1 | Texas: | | |
| Barberton..... | | 1 | Beaumont..... | | 1 |
| Cambridge..... | | 2 | Dallas..... | 5 | 4 |
| Canton..... | | 3 | El Paso..... | | 21 |
| Chillicothe..... | | 1 | Galveston..... | | 4 |
| Cincinnati..... | | 11 | Houston..... | | 1 |
| Cleveland..... | 42 | 18 | Waco..... | | 1 |
| Cleveland Heights..... | 1 | | Utah: | | |
| Columbus..... | | 7 | Provo..... | 7 | 1 |
| Dayton..... | 1 | | Salt Lake City..... | | 4 |
| East Cleveland..... | 2 | | Vermont: | | |
| East Youngstown..... | | 1 | Burlington..... | | 2 |
| Hamilton..... | | 2 | Virginia: | | |
| Kenmore..... | 1 | | Alexandria..... | | 1 |
| Lancaster..... | | 3 | Danville..... | | 3 |
| Lorain..... | 6 | | Lynchburg..... | | 5 |
| Mansfield..... | | 1 | Norfolk..... | 3 | 2 |
| Martins Ferry..... | 2 | 1 | Petersburg..... | | 3 |
| Newark..... | | 1 | Portsmouth..... | | 2 |
| Niles..... | 1 | | Richmond..... | | 3 |
| Norwood..... | 4 | | Roanoke..... | | 1 |
| Piqua..... | 2 | | West Virginia: | | |
| Sandusky..... | | 1 | Bluefield..... | | 2 |
| Tiffin..... | | 1 | Charleston..... | | 3 |
| Toledo..... | | 14 | Clarksburg..... | | 2 |
| Youngstown..... | | 5 | Huntington..... | | 4 |
| Zanesville..... | | 4 | Wheeling..... | | 6 |
| Oklahoma: | | | Wisconsin: | | |
| Oklahoma..... | | 3 | Fond du Lac..... | 16 | 2 |
| Oregon: | | | Kenosha..... | | 2 |
| Portland..... | | 3 | Milwaukee..... | 17 | |
| Pennsylvania: | | | Racine..... | | 2 |
| Philadelphia..... | 123 | 82 | Wyoming: | | |
| Rhode Island: | | | Casper..... | 7 | 1 |
| Cranston..... | | 2 | | | |

POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

| City. | Median for pre- vious years. | Week ended Apr. 1, 1922. | | City. | Median for pre- vious years. | Week ended Apr. 1, 1922. | |
|-----------------|---------------------------------------|-----------------------------|---------|---------------|---------------------------------------|-----------------------------|---------|
| | | Cases. | Deaths. | | | Cases. | Deaths. |
| Iowa: | | | | Minnesota: | | | |
| Burlington..... | 0 | 1 | ..... | St. Paul..... | 0 | ..... | 1 |
| Massachusetts: | | | | New York: | | | |
| Boston..... | 0 | 2 | ..... | New York..... | 1 | 1 | ..... |
| Lawrence..... | 0 | | 1 | | | | |

RABIES IN ANIMALS.

| City. | Cases. | City. | Cases. |
|------------------|--------|------------------|--------|
| California: | | | |
| Los Angeles..... | 5 | Massachusetts: | |
| Georgia: | | Arlington..... | 2 |
| Savannah..... | 2 | Missouri: | |
| Kentucky: | | Kansas City..... | 1 |
| Louisville..... | 2 | | |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

RABIES IN MAN.

| City. | Cases. | Deaths. |
|------------|--------|---------|
| Ohio: | | |
| Akron..... | 1 | ..... |

SCARLET FEVER.

See p. 964; also Telegraphic weekly reports from States, p. 952, and Monthly summaries by States, p. 956.

SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

| City. | Median for pre- vious years. | Week ended Apr. 1, 1922. | | City. | Median for pre- vious years. | Week ended Apr. 1, 1922. | |
|-----------------------|---------------------------------------|-----------------------------|---------|---------------------|---------------------------------------|-----------------------------|---------|
| | | Cases. | Deaths. | | | Cases. | Deaths. |
| Alabama: | | | | Minnesota: | | | |
| Mobile..... | 0 | 5 | ..... | Minneapolis..... | 17 | 9 | ..... |
| Tuscaloosa..... | 1 | 1 | ..... | St. Paul..... | 7 | 14 | ..... |
| Tucson..... | 0 | ..... | 1 | Virginia..... | 0 | 1 | ..... |
| California: | | | | Winona..... | 0 | 1 | ..... |
| Alameda..... | 0 | 1 | ..... | Missouri: | | | |
| Bakersfield..... | 0 | 1 | ..... | Kansas City..... | 7 | 9 | 1 |
| Long Beach..... | 1 | 2 | ..... | Great Falls..... | 1 | 1 | ..... |
| Oakland..... | 0 | 1 | ..... | Nevada: | | | |
| San Diego..... | 0 | 1 | ..... | Reno..... | 0 | 1 | ..... |
| San Francisco..... | 1 | 4 | ..... | North Carolina: | | | |
| Stockton..... | 0 | 1 | ..... | Durham..... | 1 | 3 | ..... |
| Connecticut: | | | | Ohio: | | | |
| Bridgeport..... | 0 | 4 | ..... | Alliance..... | 0 | 1 | ..... |
| Fairfield..... | ..... | 3 | ..... | Bucyrus..... | 0 | 2 | ..... |
| Milford..... | ..... | 3 | ..... | Canton..... | 2 | 1 | ..... |
| District of Columbia: | | | | Cincinnati..... | 4 | 6 | ..... |
| Washington..... | 1 | 11 | ..... | Cleveland..... | 4 | 1 | ..... |
| Georgia: | | | | Dayton..... | 1 | 5 | ..... |
| Atlanta..... | 7 | 1 | ..... | Fremont..... | 0 | 1 | ..... |
| Augusta..... | 0 | 12 | ..... | Hamilton..... | 1 | 3 | ..... |
| Brunswick..... | 0 | 2 | ..... | Springfield..... | 1 | 13 | ..... |
| Savannah..... | 0 | 1 | ..... | Toledo..... | 4 | 12 | ..... |
| Illinois: | | | | Oklahoma: | | | |
| Chicago..... | 4 | 6 | 2 | Oklahoma..... | 8 | 2 | ..... |
| Pekin..... | 0 | 2 | ..... | Oregon: | | | |
| Peoria..... | 5 | 4 | ..... | Portland..... | 3 | 8 | ..... |
| Iowa: | | | | South Dakota: | | | |
| Burlington..... | 1 | 3 | ..... | Sioux Falls..... | 0 | 3 | ..... |
| Cedar Rapids..... | 4 | 1 | ..... | Texas: | | | |
| Davenport..... | 10 | 1 | ..... | Beaumont..... | 0 | 1 | ..... |
| Muscatine..... | 0 | 6 | ..... | El Paso..... | 0 | 2 | ..... |
| Sioux City..... | 6 | 2 | ..... | Waco..... | 0 | 2 | ..... |
| Kansas: | | | | Utah: | | | |
| Kansas City..... | 5 | 1 | ..... | Salt Lake City..... | 10 | 5 | ..... |
| Leavenworth..... | 0 | 1 | ..... | Virginia: | | | |
| Salina..... | 5 | 1 | ..... | Lynchburg..... | 0 | 1 | ..... |
| Wichita..... | 7 | 1 | ..... | West Virginia: | | | |
| Kentucky: | | | | Bluefield..... | 3 | 2 | ..... |
| Louisville..... | 3 | 3 | ..... | Parkersburg..... | 0 | 3 | ..... |
| Maine: | | | | Wisconsin: | | | |
| Waterville..... | 1 | 1 | ..... | Manitowoc..... | 0 | 1 | ..... |
| Michigan: | | | | Superior..... | 0 | 5 | ..... |
| Alpena..... | 0 | 3 | ..... | West Allis..... | ..... | 1 | ..... |
| Ann Arbor..... | 1 | ..... | 1 | Wyoming: | | | |
| Flint..... | 2 | 2 | ..... | Casper..... | ..... | 1 | ..... |
| Hamtramck..... | 1 | 1 | ..... |  |  |  |  |
| Pontiac..... | 0 | 1 | ..... |  |  |  |  |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

TETANUS.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|----------------|--------|---------|-----------------|--------|---------|
| Georgia: | | | New York: | | |
| Savannah..... | 1 | 1 | New York..... | 1 | ..... |
| Illinois: | | | Virginia: | | |
| Chicago..... | 1 | ..... | Portsmouth..... | ..... | 1 |
| Kentucky: | | | West Virginia: | | |
| Lexington..... | ..... | 1 | Charleston..... | 1 | ..... |
| Nebraska: | | | | | |
| Omaha..... | 1 | 1 | | | |

TUBERCULOSIS.

See p. 964; also Telegraphic weekly reports from States, p. 952.

TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

| City. | Median for pre- vious years. | Week ended Apr. 1, 1922. | | City. | Median for pre- vious years. | Week ended Apr. 1, 1922. | |
|-----------------------|---------------------------------------|-----------------------------|---------|------------------|---------------------------------------|-----------------------------|---------|
| | | Cases. | Deaths. | | | Cases. | Deaths. |
| California: | | | | Minnesota: | | | |
| Los Angeles..... | 2 | 1 | ..... | Minneapolis..... | 1 | 1 | ..... |
| Oakland..... | 0 | 1 | ..... | St. Paul..... | 0 | 1 | 1 |
| San Bernardino..... | 0 | ..... | 1 | Missouri: | | | |
| San Francisco..... | 3 | 1 | ..... | St. Louis..... | 1 | 1 | ..... |
| Connecticut: | | | | Nevada: | | | |
| Bridgeport..... | 0 | 1 | ..... | Reno..... | 0 | 1 | ..... |
| Delaware: | | | | New Jersey: | | | |
| Wilmington..... | 0 | 2 | ..... | Rahway..... | 0 | 1 | ..... |
| District of Columbia: | | | | Trenton..... | 0 | 3 | ..... |
| Washington..... | 1 | 2 | ..... | New York: | | | |
| Florida: | | | | Elmira..... | 0 | 1 | 1 |
| Tampa..... | 1 | 5 | ..... | New York..... | 8 | 7 | 2 |
| Georgia: | | | | Rochester..... | 0 | 1 | ..... |
| Brunswick..... | 0 | ..... | 1 | Syracuse..... | 0 | ..... | 1 |
| Illinois: | | | | Troy..... | 0 | ..... | 1 |
| Aurora..... | 0 | 2 | ..... | Ohio: | | | |
| Bloomington..... | 0 | 1 | 1 | Cleveland..... | 1 | 1 | ..... |
| Chicago..... | 3 | 5 | 1 | Sandusky..... | 0 | ..... | 1 |
| Indiana: | | | | Youngstown..... | 0 | 1 | 1 |
| Hammond..... | 1 | 8 | ..... | Pennsylvania: | | | |
| South Bend..... | 0 | 1 | ..... | Norristown..... | 0 | 2 | ..... |
| Iowa: | | | | Pittsburgh..... | 1 | 1 | ..... |
| Mason City..... | 0 | 1 | ..... | Sharon..... | 0 | 1 | ..... |
| Louisiana: | | | | Tennessee: | | | |
| New Orleans..... | 2 | 3 | ..... | Knoxville..... | 0 | 1 | ..... |
| Maine: | | | | Nashville..... | 1 | ..... | 1 |
| Sanford..... | 0 | 1 | ..... | Texas: | | | |
| Maryland: | | | | Dallas..... | 0 | 1 | ..... |
| Baltimore..... | 4 | 1 | ..... | Galveston..... | 1 | 1 | 1 |
| Massachusetts: | | | | Virginia: | | | |
| Boston..... | 2 | 1 | ..... | Alexandria..... | 0 | 1 | ..... |
| Lynn..... | 0 | 1 | ..... | Petersburg..... | 0 | ..... | 1 |
| Michigan: | | | | Portsmouth..... | 0 | 1 | 1 |
| Battle Creek..... | 0 | 1 | ..... | Wisconsin: | | | |
| Detroit..... | 2 | ..... | 1 | Superior..... | 0 | ..... | 1 |
| Saginaw..... | 1 | 1 | ..... |  |  |  |  |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

| City. | Popula- tion Janu- ary 1, 1920, subject to correction. | Total deaths from all causes. | Diphtheria. | | Meas.les. | | Scarlet fever. | | Tuber- culosis. | |
|-----------------------|--|---|-------------|---------|-----------|---------|-------------------|---------|--------------------|---------|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Alabama: | | | | | | | | | | |
| Birmingham..... | 178,270 | 47 | 3 | ..... | 11 | ..... | 1 | ..... | 5 | 6 |
| Mobile..... | 60,151 | 30 | 1 | ..... | ..... | ..... | 2 | ..... | ..... | 2 |
| Montgomery..... | 43,464 | 20 | ..... | ..... | 1 | ..... | ..... | ..... | ..... | 4 |
| Tuscaloosa..... | 11,996 | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Arizona: | | | | | | | | | | |
| Tucson..... | 20,292 | 33 | ..... | 1 | ..... | ..... | ..... | ..... | ..... | 8 |
| Arkansas: | | | | | | | | | | |
| Fort Smith..... | 28,811 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 |
| Hot Springs..... | 11,685 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Little Rock..... | 64,997 | ..... | 1 | ..... | ..... | ..... | 2 | ..... | 2 | ..... |
| California: | | | | | | | | | | |
| Alameda..... | 28,806 | 4 | ..... | ..... | ..... | ..... | 7 | ..... | ..... | ..... |
| Bakersfield..... | 18,638 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | 1 |
| Eureka..... | 12,923 | 3 | 1 | ..... | 1 | ..... | 2 | ..... | ..... | ..... |
| Long Beach..... | 55,593 | 21 | 6 | 1 | ..... | ..... | 1 | ..... | 1 | ..... |
| Los Angeles..... | 576,673 | 201 | 44 | 1 | 5 | ..... | 29 | 1 | 153 | 31 |
| Oakland..... | 216,361 | 55 | 17 | 2 | 1 | ..... | 3 | ..... | ..... | ..... |
| Pasadena..... | 45,354 | 20 | 2 | ..... | ..... | ..... | 1 | ..... | 1 | 1 |
| Richmond..... | 16,813 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Riverside..... | 19,341 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Sacramento..... | 65,857 | 25 | 5 | ..... | 1 | ..... | 2 | ..... | 1 | 3 |
| San Bernardino..... | 18,721 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 1 | 4 |
| San Diego..... | 74,683 | 30 | 7 | ..... | ..... | ..... | 5 | ..... | 10 | 2 |
| San Francisco..... | 508,410 | 146 | 43 | 1 | 5 | ..... | 13 | ..... | 35 | 20 |
| Santa Ana..... | 15,485 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Stockton..... | 40,296 | 13 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | 5 |
| Colorado: | | | | | | | | | | |
| Colorado Springs..... | 30,105 | 16 | ..... | ..... | ..... | ..... | 5 | ..... | 15 | 6 |
| Greeley..... | 10,883 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Connecticut: | | | | | | | | | | |
| Bridgeport..... | 143,538 | 34 | 11 | ..... | 13 | ..... | 18 | ..... | 2 | 3 |
| Derby..... | 11,218 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 |
| Fairfield..... | 11,475 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Greenwich..... | 22,123 | ..... | 1 | ..... | ..... | ..... | 5 | ..... | ..... | ..... |
| Hartford..... | 138,036 | 39 | 15 | ..... | 26 | ..... | 3 | ..... | 2 | ..... |
| Manchester..... | 18,370 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Millford..... | 10,193 | 0 | 1 | ..... | ..... | ..... | 1 | ..... | ..... | ..... |
| New London..... | 25,683 | 14 | 1 | 1 | 12 | ..... | 1 | ..... | ..... | ..... |
| Norwalk..... | 27,700 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Norwich..... | 22,301 | 6 | ..... | ..... | 1 | ..... | ..... | ..... | 2 | ..... |
| Waterbury..... | 91,410 | 37 | 2 | ..... | 1 | ..... | 1 | ..... | 1 | 2 |
| Delaware: | | | | | | | | | | |
| Wilmington..... | 110,168 | 32 | 1 | ..... | 2 | ..... | 56 | ..... | ..... | 1 |
| District of Columbia: | | | | | | | | | | |
| Washington..... | 437,571 | 128 | 15 | 1 | 4 | ..... | 9 | ..... | 25 | 11 |
| Florida: | | | | | | | | | | |
| Tampa..... | 51,252 | 22 | 3 | ..... | 3 | ..... | ..... | ..... | ..... | 3 |
| Georgia: | | | | | | | | | | |
| Albany..... | 11,555 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 11 | ..... |
| Atlanta..... | 200,616 | 95 | ..... | ..... | 1 | ..... | 3 | ..... | 1 | 5 |
| Augusta..... | 52,548 | ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... |
| Brunswick..... | 14,413 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Rome..... | 13,252 | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Savannah..... | 83,252 | 26 | ..... | ..... | ..... | ..... | ..... | ..... | 3 | 3 |
| Valdosta..... | 10,783 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Idaho: | | | | | | | | | | |
| Boise..... | 21,393 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Pocatello..... | 15,001 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Illinois: | | | | | | | | | | |
| Alton..... | 24,682 | 6 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aurora..... | 38,397 | 19 | 8 | 1 | 19 | ..... | 2 | ..... | 1 | 1 |
| Bloomington..... | 28,725 | 8 | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... |
| Blue Island..... | 11,424 | 2 | 4 | ..... | 11 | ..... | ..... | ..... | ..... | ..... |
| Centralia..... | 12,491 | 5 | 1 | ..... | 1 | ..... | 1 | ..... | ..... | ..... |
| Champaign..... | 15,873 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Chicago..... | 2,701,705 | 659 | 137 | 14 | 464 | 4 | 105 | 3 | 257 | 50 |
| Cicero..... | 44,995 | 11 | 3 | ..... | ..... | ..... | 1 | ..... | 3 | ..... |
| Decatur..... | 43,818 | 12 | 3 | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| East St. Louis..... | 66,740 | 13 | 3 | ..... | ..... | ..... | ..... | ..... | 3 | ..... |
| Elgin..... | 27,454 | 3 | ..... | ..... | ..... | ..... | 1 | ..... | ..... | 1 |
| Evanston..... | 37,215 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | 1 | ..... |
| Forest Park..... | 10,788 | ..... | ..... | ..... | 5 | ..... | ..... | ..... | ..... | ..... |
| Freeport..... | 19,669 | 5 | ..... | ..... | ..... | ..... | 4 | ..... | ..... | 1 |
| Galesburg..... | 23,834 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | 2 | 1 |
| Jacksonville..... | 15,713 | 13 | ..... | ..... | ..... | ..... | 1 | ..... | ..... | 1 |
| Kewanee..... | 16,026 | 2 | ..... | ..... | ..... | ..... | 4 | ..... | ..... | ..... |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.
DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Popula- tion Janu- ary 1, 1922, subject to correction. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuber- culosis. | |
|---------------------|--|---|-------------|---------|----------|---------|-------------------|---------|--------------------|---------|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Illinois—Continued. | | | | | | | | | | |
| La Salle..... | 13,050 | 2 | | | | | | | | |
| Mattoon..... | 13,552 | 4 | | | | | | | | |
| Oak Park..... | 39,830 | 13 | | | 7 | | 3 | | | |
| Pekin..... | 12,066 | | | | | | 3 | | | |
| Peoria..... | 76,121 | 21 | 1 | | 1 | | | | | 1 |
| Quincy..... | 35,978 | 6 | 2 | | | | 2 | | 2 | |
| Rockford..... | 65,651 | 10 | | | | | 9 | | | |
| Rock Island..... | 35,177 | 10 | 1 | | | | | | 2 | 2 |
| Springfield..... | 59,183 | 17 | 2 | | | | | | | |
| Indiana: | | | | | | | | | | |
| Anderson..... | 29,767 | 4 | 2 | | | | 1 | | | |
| Bloomington..... | 11,595 | 3 | 1 | | | | | | | |
| Clinton..... | 10,962 | 7 | | | | | | | | |
| Crawfordsville..... | 10,139 | 5 | | | 1 | | | | | |
| East Chicago..... | 35,967 | 10 | 3 | | 1 | | | | | 1 |
| Fort Wayne..... | 36,549 | 13 | 5 | 1 | 7 | | 2 | | | |
| Frankfort..... | 11,385 | 1 | | | | | 1 | | | |
| Gary..... | 55,378 | 10 | 2 | | 1 | | 2 | | 1 | 1 |
| Hammond..... | 36,004 | 6 | | | 1 | | 1 | | | |
| Huntington..... | 14,000 | 5 | 1 | | | | | | | 1 |
| Indianapolis..... | 314,194 | 63 | 11 | | 56 | | 8 | | 4 | 7 |
| Kokomo..... | 30,067 | 4 | | | | | 1 | | | |
| La Fayette..... | 22,486 | 8 | | | | | 2 | | | |
| Logansport..... | 21,626 | 1 | | | | | | | | |
| Mishawaka..... | 15,195 | 3 | | | | | | | | |
| Muncie..... | 36,624 | 7 | | | | | | | | |
| South Bend..... | 70,983 | 12 | 1 | | 1 | | 1 | | | |
| Terre Haute..... | 66,063 | 20 | 2 | | 1 | | 4 | | | |
| Iowa: | | | | | | | | | | |
| Burlington..... | 24,057 | 6 | | | | | | | 1 | 1 |
| Cedar Rapids..... | 45,566 | | 1 | | | | 2 | | | |
| Davenport..... | 56,727 | 2 | 2 | 2 | 1 | | 2 | | | |
| Des Moines..... | 126,468 | | 4 | | | | 6 | | | |
| Dubuque..... | 39,141 | | | | | | 1 | | | |
| Mason City..... | 20,065 | 8 | 3 | | | | | | | 1 |
| Muscatine..... | 16,068 | 11 | | | | | 1 | | | |
| Ottumwa..... | 23,003 | 1 | 1 | 1 | | | 1 | | | |
| Sioux City..... | 71,227 | | 8 | | | | 2 | | | |
| Kansas: | | | | | | | | | | |
| Coffeyville..... | 13,452 | 3 | | | | | | | | |
| Fort Scott..... | 10,693 | 7 | | | | | | | | |
| Kansas City..... | 101,177 | | 2 | | | | 2 | | 4 | |
| Lawrence..... | 12,456 | 1 | | | | | 1 | | 4 | |
| Leavenworth..... | 16,912 | | 1 | | | | | | | |
| Parsons..... | 16,028 | 5 | 1 | | | | | | 1 | |
| Salina..... | 15,085 | 4 | 1 | | | | 6 | | | |
| Topeka..... | 50,022 | 22 | 5 | | 1 | | 2 | | 2 | 1 |
| Wichita..... | 72,128 | 20 | | 1 | | | 6 | | 2 | |
| Kentucky: | | | | | | | | | | |
| Covington..... | 57,121 | 15 | 1 | | 4 | | 1 | | | 3 |
| Lexington..... | 41,534 | 20 | | | 12 | | | | | 2 |
| Louisville..... | 234,891 | 78 | 3 | | 22 | | 4 | | 9 | 12 |
| Owensboro..... | 17,424 | | 1 | | | | 1 | | | |
| Louisiana: | | | | | | | | | | |
| New Orleans..... | 387,219 | 107 | 6 | 1 | | | 6 | | 20 | 14 |
| Maine: | | | | | | | | | | |
| Auburn..... | 16,985 | 3 | 1 | | | | 4 | | | |
| Bath..... | 14,731 | 3 | | | | | | | | |
| Biddeford..... | 18,008 | 8 | | | | | | | | 1 |
| Lewiston..... | 31,791 | 7 | | | | | 4 | | 1 | |
| Portland..... | 69,272 | 19 | 3 | | | | 14 | | | |
| Sanford..... | 10,691 | 11 | | | | | | | | |
| Maryland: | | | | | | | | | | |
| Baltimore..... | 733,826 | 263 | 35 | 4 | 259 | 3 | 32 | | 31 | 19 |
| Cumberland..... | 29,837 | 11 | 1 | | | | 1 | | | |
| Massachusetts: | | | | | | | | | | |
| Adams..... | 12,967 | 1 | 1 | | | | | | 3 | |
| Amesbury..... | 10,036 | 1 | 1 | | | | | | | |
| Arlington..... | 18,665 | 1 | | | 4 | | | | 2 | |
| Attleboro..... | 19,731 | 4 | | | | | | | | |
| Belmont..... | 10,749 | 2 | | | 1 | | 2 | | 2 | |
| Beverly..... | 22,561 | 4 | 4 | | 1 | | 1 | | | |
| Boston..... | 748,060 | 237 | 47 | 1 | 185 | | 40 | 1 | 55 | 17 |
| Braintree..... | 10,580 | 3 | | | | | 1 | | | 2 |
| Brookline..... | 37,748 | 9 | 1 | | 4 | | 1 | | | 1 |
| Cambridge..... | 109,694 | 36 | | | 58 | | 8 | | 7 | 3 |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Popu- ation Janu- ary 1, 1922, subject to correction. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuber- culosis. | |
|--------------------------|---|---|-------------|---------|----------|---------|-------------------|---------|--------------------|---------|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Massachusetts—Continued. | | | | | | | | | | |
| Chelsea | 43,184 | 9 | | | | | 5 | | 1 | |
| Chicopee | 36,214 | 6 | 3 | | 3 | | | | 1 | |
| Clinton | 12,979 | 7 | | | | | | | 1 | |
| Danvers | 11,108 | | | | | | | | 1 | |
| Dedham | 10,792 | 1 | | | | | 1 | | | |
| Everett | 49,120 | 4 | 3 | | | | 2 | | 3 | |
| Fall River | 120,485 | 41 | 1 | | 1 | | 5 | 1 | 4 | 2 |
| Frammingham | 17,033 | 12 | 1 | | | | | | | |
| Gardner | 16,971 | 2 | | | | | 4 | | 1 | |
| Greenfield | 15,462 | 6 | 1 | | 1 | | | | | |
| Haverhill | 53,884 | 17 | 5 | | 1 | | 3 | | 4 | 1 |
| Holyoke | 60,203 | 23 | 1 | | 23 | | 1 | | | 2 |
| Lawrence | 94,270 | 19 | 6 | | 63 | 1 | | | 4 | 1 |
| Leominster | 19,744 | 3 | | | 4 | | | | | 1 |
| Lowell | 112,479 | 29 | 2 | | 8 | | 2 | | 2 | 3 |
| Lynn | 99,148 | 32 | 6 | 1 | 4 | | 7 | | 4 | 3 |
| Malden | 49,103 | 13 | 1 | | 2 | | 4 | | 6 | 1 |
| Melrose | 18,204 | 9 | | | | | 1 | | | |
| Methuen | 15,189 | 7 | 3 | | 15 | | 5 | | | |
| New Bedford | 121,217 | 44 | 9 | | | | 9 | | 11 | 5 |
| Newburyport | 15,618 | 4 | | | 4 | | | | | |
| Newton | 46,054 | 9 | 3 | | 2 | | 5 | | 3 | 1 |
| North Adams | 22,282 | 11 | | | | | | | | |
| Northampton | 21,951 | 7 | | | 1 | | 1 | | 1 | |
| Peabody | 19,552 | 7 | | | 16 | | 3 | | | 1 |
| Pittsfield | 41,751 | 9 | 2 | | 1 | | 2 | | | 1 |
| Plymouth | 13,045 | 4 | | | | | | | | |
| Quincy | 47,876 | 6 | 1 | | 6 | 1 | 4 | | 4 | |
| Salem | 42,529 | 13 | | | 9 | | 1 | | 1 | 3 |
| Somerville | 93,091 | 21 | 6 | | 48 | | 2 | | 1 | 1 |
| Southbridge | 14,245 | 4 | | | | | | | 2 | |
| Springfield | 129,563 | 33 | 4 | 1 | 16 | 1 | 2 | | 4 | 1 |
| Taunton | 37,137 | 8 | | | | | | | 3 | |
| Wakefield | 13,025 | 5 | | | 3 | | 1 | | | |
| Waltham | 30,915 | 10 | | | 4 | | 2 | | | |
| Watertown | 21,457 | 2 | | | 3 | | | | 1 | |
| Webster | 13,258 | 3 | | | 1 | | | | | |
| West Springfield | 13,443 | 2 | | | | | | | | |
| Westfield | 18,604 | 6 | | | 21 | 1 | | | 1 | 1 |
| Weymouth | 15,057 | 4 | | | | | | | | |
| Winthrop | 15,455 | 3 | | | | | | | | |
| Woburn | 16,574 | 4 | | | | | | | | |
| Worcester | 179,754 | 54 | 2 | | | | 5 | | 6 | 2 |
| Michigan: | | | | | | | | | | |
| Alpena | 11,101 | | 1 | | | | | | | |
| Ann Arbor | 19,516 | 13 | | 1 | | | | | 6 | |
| Battle Creek | 36,164 | | 4 | | 13 | | 1 | | | |
| Benton Harbor | 12,233 | 8 | | 1 | | | 1 | | | |
| Detroit | 993,739 | 239 | 48 | 7 | 421 | 9 | 62 | 1 | 44 | 18 |
| Flint | 91,599 | 23 | 5 | 2 | | | 6 | | | 2 |
| Grand Rapids | 137,634 | 48 | 2 | | 2 | | 6 | | 3 | |
| Hamtramck | 48,615 | 0 | 2 | | 5 | | | | 6 | |
| Highland Park | 46,499 | 10 | 1 | | 69 | | 3 | | | |
| Ishpeming | 10,500 | 5 | | | | | | | | |
| Kalamazoo | 48,858 | 15 | 5 | | | | 11 | | 1 | |
| Marquette | 12,718 | 0 | | | | | 1 | | | |
| Pontiac | 34,273 | 10 | 1 | | 40 | | 4 | | | |
| Port Huron | 25,944 | 9 | | | 4 | | | | | |
| Saginaw | 61,903 | 15 | | | | | 3 | | 1 | |
| Sault Ste. Marie | 12,096 | 6 | | | | | 1 | | | |
| Minnesota: | | | | | | | | | | |
| Austin | 10,118 | 7 | | | | | | | | |
| Duluth | 98,917 | 10 | 1 | | | | 5 | | | 1 |
| Faribault | 11,089 | 1 | 2 | | | | | | | |
| Mankato | 12,469 | | | | | | 4 | | | |
| Minneapolis | 380,582 | 96 | 14 | | 39 | | 43 | 1 | 18 | 6 |
| Rochester | 13,722 | 15 | | | | | | | 1 | |
| St. Cloud | 15,873 | | | | | | 4 | | | |
| St. Paul | 234,595 | 57 | 9 | | 10 | | 41 | | 15 | 3 |
| Winona | 19,143 | | 1 | | | | 1 | | | |
| Missouri: | | | | | | | | | | |
| Kansas City | 324,410 | 96 | 12 | | 4 | | 9 | | 8 | 9 |
| St. Joseph | 77,939 | 31 | | | | | 1 | | | 2 |
| St. Louis | 772,897 | 200 | 40 | | | | 13 | | 44 | 12 |
| Springfield | 39,631 | 91 | | | | | | | | 3 |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.
DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population January 1, 1920, subject to correction. | Total deaths from all causes. | Diphtheria. | | Meas'es. | | Scarlet fever. | | Tuberculosis. | |
|-----------------------|--|-------------------------------|-------------|---------|----------|---------|----------------|---------|---------------|---------|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Montana: | | | | | | | | | | |
| Anaconda..... | 11,668 | 17 | | | | | | | | |
| Billings..... | 15,100 | 9 | | | | | | | 1 | |
| Butte..... | 41,611 | 8 | | | | | | | | |
| Great Falls..... | 24,121 | 6 | | | 3 | | 1 | | 1 | |
| Missoula..... | 12,668 | 9 | | | | | 1 | | | |
| Nebraska: | | | | | | | | | | |
| Lincoln..... | 54,934 | 14 | 1 | 1 | 19 | | 3 | | | 1 |
| Omaha..... | 191,601 | 57 | 11 | | 39 | | 2 | | | 3 |
| Nevada: | | | | | | | | | | |
| Reno..... | 12,016 | 2 | | | | | | | | |
| New Hampshire: | | | | | | | | | | |
| Berlin..... | 16,104 | 0 | | | 1 | | | | | |
| Concord..... | 22,167 | 5 | | | | | | | | |
| Dover..... | 13,029 | 1 | | | 8 | | | | | |
| Keene..... | 11,210 | 5 | | | | | | | | |
| Nashua..... | 28,379 | 9 | | | | | | | | |
| New Jersey: | | | | | | | | | | |
| Asbury Park..... | 12,400 | 3 | | | | | | | 1 | 1 |
| Atlantic City..... | 50,682 | 8 | | | 4 | | 4 | | 5 | |
| Bayonne..... | 70,754 | | 3 | | 13 | | 3 | | 2 | |
| Belleville..... | 15,660 | | 1 | | 5 | | | | | |
| Bloomfield..... | 22,019 | 4 | | | 73 | | | | 1 | |
| Clifton..... | 26,470 | | 1 | | | | 1 | | | |
| Elizabeth..... | 95,682 | | 5 | | 1 | | 10 | | 4 | 1 |
| Englewood..... | 11,627 | 4 | | | | | | | | |
| Garfield..... | 19,381 | 4 | | | | | 1 | | 2 | |
| Harrison..... | 15,721 | | | | 4 | | | | | |
| Hoboken..... | 68,166 | 15 | 2 | | 45 | 1 | 2 | | 2 | 2 |
| Jersey City..... | 297,964 | | 19 | | 104 | | 29 | | 6 | |
| Kearny..... | 26,724 | 6 | 1 | | 1 | | 3 | | 2 | |
| Montclair..... | 28,810 | 4 | 1 | | 4 | | 3 | | | |
| Morristown..... | 12,548 | 6 | | | 2 | | 3 | | | |
| Orange..... | 33,268 | 4 | 2 | | 2 | | 4 | | 3 | |
| Passaic..... | 63,824 | 9 | 3 | | 4 | | 5 | | 5 | 1 |
| Paterson..... | 135,866 | | 6 | | 65 | | 6 | | 11 | |
| Perth Amboy..... | 41,707 | | 2 | | 2 | | 4 | | | |
| Phillipsburg..... | 16,923 | 3 | | | | | | | | |
| Plainfield..... | 27,700 | 8 | | | 5 | | 2 | | 1 | |
| Rahway..... | 11,042 | 1 | | | 1 | | 2 | | | |
| Summit..... | 10,174 | 2 | | | | | 1 | | 2 | |
| Trenton..... | 119,289 | 38 | 6 | 1 | 32 | | 12 | | 7 | 1 |
| Union..... | 20,651 | | | | 8 | | 8 | | | |
| West Hoboken..... | 40,068 | 8 | 3 | | 17 | | 3 | | | |
| West New York..... | 29,926 | 6 | | | 6 | | 5 | | 3 | |
| West Orange..... | 15,573 | 3 | 2 | | 1 | | 5 | | | |
| New Mexico: | | | | | | | | | | |
| Albuquerque..... | 15,157 | 10 | | | | | | | | 4 |
| New York: | | | | | | | | | | |
| Albany..... | 113,344 | | 4 | | 1 | | 6 | | 7 | |
| Anbarn..... | 36,192 | 6 | 3 | | | | 2 | | 2 | |
| Binghampton..... | 66,800 | 23 | | | | | 5 | | 1 | |
| Buffalo..... | 506,775 | 175 | 13 | 1 | 4 | 1 | 52 | 1 | 32 | 11 |
| Cohoes..... | 22,987 | 5 | | | | | | | | |
| Elmira..... | 45,305 | 29 | | | 89 | | 3 | | 1 | 2 |
| Geneva..... | 14,643 | 3 | | | | | | | | |
| Glens Falls..... | 16,638 | 5 | 1 | | | | | | 1 | |
| Hudson..... | 11,745 | 2 | 1 | | 2 | | | | | |
| Ithaca..... | 17,004 | 12 | 1 | | | | | | 1 | |
| Jamestown..... | 38,917 | 11 | | | 14 | | 1 | | | 1 |
| Lackawanna..... | 17,918 | 7 | | | | | 2 | | | |
| Lockport..... | 21,308 | 12 | | | | | 1 | | 1 | |
| Middletown..... | 18,420 | | | | | | | | | |
| Mount Vernon..... | 42,726 | 13 | | | 8 | | 3 | | 3 | 1 |
| Newburgh..... | 30,366 | 13 | | | | | | | 1 | |
| New York..... | 5,621,151 | 1,534 | 302 | 28 | 2,052 | 40 | 421 | 9 | 1,293 | 1,123 |
| Niagara Falls..... | 50,760 | 11 | 5 | | 18 | | 5 | | | |
| North Tonawanda..... | 15,482 | 7 | | | | | 1 | | | |
| Ogdensburg..... | 14,609 | 15 | | | | | | | | |
| Olean..... | 20,506 | 8 | | | | | | | | |
| Peekskill..... | 15,868 | 12 | 4 | 2 | 9 | 1 | 1 | | 1 | |
| Port Chester..... | 16,573 | 5 | 1 | 1 | | | | | | 1 |
| Poughkeepsie..... | 35,000 | 11 | 1 | | 42 | | | | 1 | 3 |
| Rochester..... | 295,750 | 84 | 5 | | 14 | | 3 | | 18 | 3 |
| Rome..... | 26,341 | 11 | 1 | | 9 | | 2 | | | 2 |

¹Pulmonary tuberculosis only.

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population January 1, 1920, subject to correction. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|------------------------|--|-------------------------------|-------------|---------|----------|---------|----------------|---------|---------------|---------|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| New York—Continued. | | | | | | | | | | |
| Saratoga Springs..... | 13,181 | 4 | 3 | | | | | | | |
| Schenectady..... | 88,723 | 15 | 3 | | | | 6 | | | |
| Syracuse..... | 171,717 | 52 | 17 | | 1 | | 13 | 1 | 7 | 1 |
| Troy..... | 72,013 | 29 | 5 | | | | | | 1 | 1 |
| White Plains..... | 21,031 | 3 | | | 16 | | 2 | | | |
| Yonkers..... | 100,226 | 22 | 5 | | 31 | 1 | 12 | | | 1 |
| North Carolina: | | | | | | | | | | |
| Charlotte..... | 46,338 | 28 | | | | | | | | 3 |
| Durham..... | 21,719 | 7 | | | | | | | 3 | 1 |
| Greensboro..... | 19,861 | 4 | | | | | | | | |
| Raleigh..... | 24,418 | 10 | | | | | | | | |
| Rocky Mount..... | 12,742 | 7 | | | | | | | | 1 |
| Salisbury..... | 13,884 | 2 | | | | | | | | 1 |
| Wilmington..... | 33,372 | 8 | | | | | | | 2 | |
| North Dakota: | | | | | | | | | | |
| Fargo..... | 21,961 | | | | | | 4 | | | |
| Ohio: | | | | | | | | | | |
| Akron..... | 208,435 | 40 | 9 | | 87 | | 11 | | 2 | |
| Alliance..... | 21,903 | 5 | | | | | | | | |
| Barberton..... | 18,811 | 5 | | | | | | | 1 | 1 |
| Bucyrus..... | 10,425 | 2 | | | | | | | | 1 |
| Cambridge..... | 13,104 | 5 | | | 3 | | | | | |
| Canton..... | 87,091 | 20 | 5 | 1 | 111 | | 4 | | | 1 |
| Chillicothe..... | 15,831 | 7 | | | | | | | | 1 |
| Cincinnati..... | 401,247 | 105 | 10 | 1 | 114 | 2 | 0 | | 18 | 9 |
| Cleveland..... | 796,836 | 191 | 35 | 3 | 158 | 1 | 48 | 2 | 78 | 19 |
| Cleveland Heights..... | 15,236 | | | | | | 2 | | | |
| Columbus..... | 237,031 | 78 | 3 | | 4 | | 3 | | 5 | 8 |
| Dayton..... | 152,559 | 44 | 3 | | 1 | | 2 | | 1 | |
| East Cleveland..... | 27,292 | 6 | | | | | | | | |
| East Youngstown..... | 11,237 | 4 | | | | | | | | |
| Findlay..... | 17,021 | 4 | 1 | | | | | | | 1 |
| Fremont..... | 12,468 | 5 | | | | | | | | |
| Hamilton..... | 39,675 | 9 | 1 | | 2 | | | | | |
| Ironton..... | 14,007 | 1 | | | | | | | | |
| Kenmore..... | 12,683 | | 1 | | 2 | | 1 | | 1 | |
| Lancaster..... | 14,706 | 7 | 2 | | | | | | | 1 |
| Lima..... | 41,506 | 8 | 4 | | 1 | | 1 | | | |
| Lorain..... | 37,285 | | 1 | | | | 5 | | 1 | |
| Mansfield..... | 27,624 | 11 | | | | | | | | |
| Marion..... | 27,691 | | 1 | | | | | | 1 | |
| Martins Ferry..... | 11,634 | 2 | 1 | | | | | | | |
| Middletown..... | 23,594 | 6 | | | | | | | 1 | |
| Newark..... | 26,718 | 9 | | | | | | | | |
| New Philadelphia..... | 10,718 | | 3 | | | | | | | |
| Niles..... | 13,080 | 1 | 4 | | | | 1 | | | |
| Norwood..... | 24,966 | 3 | | | 4 | | 2 | 1 | | |
| Piqua..... | 15,044 | 2 | | | | | | | | |
| Salem..... | 10,305 | 5 | | | | | 2 | | | 1 |
| Sandusky..... | 22,897 | 3 | | | | | 3 | | | 1 |
| Springfield..... | 60,240 | 14 | 1 | | | | | | 2 | 1 |
| Steuenville..... | 28,508 | 11 | | | | | 2 | | 1 | |
| Toledo..... | 243,109 | 77 | 11 | | 17 | | 3 | | 4 | 5 |
| Youngstown..... | 132,358 | 23 | 1 | | 6 | | 3 | | 2 | |
| Zanesville..... | 29,569 | 12 | | | | | 4 | | 2 | |
| Oklahoma: | | | | | | | | | | |
| Oklahoma..... | 91,258 | 23 | 2 | | | | 2 | | | 2 |
| Tulsa..... | 72,075 | | | | 11 | | 2 | | | |
| Oregon: | | | | | | | | | | |
| Portland..... | 258,288 | 69 | 5 | | 1 | | 4 | | 14 | 4 |
| Pennsylvania: | | | | | | | | | | |
| Allentown..... | 73,502 | | | | | | | | 1 | |
| Altoona..... | 60,331 | | | | 1 | | 3 | | | |
| Bethlehem..... | 60,358 | | | | | | 2 | | | |
| Braddock..... | 20,879 | | | | 1 | | 1 | | | |
| Butler..... | 23,778 | | 1 | | | | 1 | | | |
| Carbondale..... | 18,640 | | | | | | | | 1 | |
| Carlisle..... | 10,916 | | | | 2 | | 1 | | | |
| Chambersburg..... | 13,171 | | | | 1 | | | | | |
| Connellsville..... | 13,804 | | 2 | | | | | | | |
| Dubois..... | 13,681 | | 3 | | | | | | | |
| Erie..... | 98,372 | | | | | | 1 | | 3 | |
| Farrell..... | 15,586 | | | | 1 | | | | | |
| Harrisburg..... | 75,917 | | 2 | | | | | | | |
| Hazleton..... | 32,277 | | 1 | | 15 | | 2 | | | |

CITY REPORTS FOR WEEK ENDED APRIL 1, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Popula- tion Janu- ary 1, 1920, subject to correction. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuber- culosis. | |
|-------------------------|--|---|-------------|---------|----------|---------|-------------------|---------|--------------------|---------|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Pennsylvania—Continued. | | | | | | | | | | |
| Johnstown..... | 67,327 | | | | 3 | | | | | |
| Lancaster..... | 53,150 | | 1 | | 1 | | 2 | | 1 | |
| Lebanon..... | 24,643 | | 1 | | | | 5 | | | |
| McKeesport..... | 45,975 | | | | 6 | | | | | |
| McKees Rocks..... | 16,713 | | 1 | | | | | | | |
| Meadville..... | 14,568 | | | | 1 | | | | | |
| New Castle..... | 44,938 | | | | 15 | | | | | |
| New Kensington..... | 11,967 | | | | 1 | | | | | |
| Norristown..... | 32,319 | | 2 | | 2 | | 1 | | | |
| North Braddock..... | 14,928 | | 1 | | 1 | | | | | |
| Philadelphia..... | 1,823,158 | 566 | 55 | 6 | 45 | 1 | 135 | 3 | 79 | 44 |
| Phoenixville..... | 10,484 | | 1 | | | | | | | |
| Pittsburgh..... | 583,193 | | 15 | | 41 | | 37 | | 27 | |
| Pittston..... | 18,497 | | 1 | | | | | | | |
| Plymouth..... | 16,500 | | | | 17 | | | | | |
| Pottstown..... | 17,431 | | 1 | | | | 1 | | 1 | |
| Pottsville..... | 21,876 | | | | 2 | | 2 | | | |
| Reading..... | 107,784 | | 3 | | 3 | | | | 20 | |
| Scranton..... | 137,783 | | 2 | | 1 | | | | 1 | |
| Shamokin..... | 21,204 | | 1 | | | | | | | |
| Sunbury..... | 16,721 | | | | 10 | | | | | |
| Swissvale..... | 10,908 | | | | 2 | | | | | |
| Tamaqua..... | 12,363 | | | | 10 | | | | | |
| Uniontown..... | 15,682 | | 1 | | 1 | | 2 | | | |
| Warren..... | 14,256 | | 1 | | | | 1 | | | |
| Washington..... | 21,480 | | 1 | | 2 | | | | | |
| Wilkes-Barre..... | 73,833 | | 1 | | 3 | | | | 1 | |
| Williamsport..... | 36,196 | | | | 1 | | | | | |
| York..... | 47,512 | | | | | | 1 | | 3 | |
| Rhode Island: | | | | | | | | | | |
| Cranston..... | 29,407 | 7 | | | | | | | | |
| Newport..... | 30,255 | 6 | 4 | | | | 1 | | | |
| Pawtucket..... | 64,248 | 25 | 1 | | | | | | | |
| Providence..... | 237,595 | 71 | 10 | 1 | 1 | | 2 | | | 8 |
| South Carolina: | | | | | | | | | | |
| Charleston..... | 67,957 | 30 | | | | | | | | 3 |
| Columbia..... | 37,524 | | | | | | 1 | | | |
| Greenville..... | 23,127 | 11 | | | | | | | | 3 |
| South Dakota: | | | | | | | | | | |
| Sioux Falls..... | 25,176 | 8 | | | 2 | | 5 | | 1 | |
| Tennessee: | | | | | | | | | | |
| Chattanooga..... | 57,895 | | 1 | | | | 1 | | | |
| Knoxville..... | 77,818 | | | | 6 | | | | 5 | 5 |
| Memphis..... | 162,351 | 46 | 5 | | | | 3 | | 7 | 5 |
| Nashville..... | 118,342 | 42 | | | | | 3 | | 5 | 3 |
| Texas: | | | | | | | | | | |
| Beaumont..... | 40,422 | 6 | | | | | | | 1 | 4 |
| Corpus Christi..... | 10,522 | 4 | | | | | | | | |
| Dallas..... | 158,976 | 34 | 5 | | 105 | | 5 | | 2 | 4 |
| El Paso..... | 77,543 | 60 | 1 | | | | | | | 13 |
| Fort Worth..... | 106,482 | 27 | 1 | | | | 2 | | 2 | 2 |
| Galveston..... | 44,255 | 19 | | | | | | | | 1 |
| Houston..... | 138,076 | 42 | 3 | | | | | | | 1 |
| Waco..... | 38,500 | 8 | | | | | | | 2 | |
| Utah: | | | | | | | | | | |
| Provo..... | 10,303 | 4 | | | | | | | | |
| Salt Lake City..... | 118,110 | 31 | 1 | 2 | 2 | | 2 | | 3 | 2 |
| Vermont: | | | | | | | | | | |
| Barre..... | 10,008 | | | | | | 3 | | | |
| Burlington..... | 22,779 | 7 | 2 | | | | 3 | | | |
| Rutland..... | 14,954 | 5 | 1 | | | | | | | |
| Virginia: | | | | | | | | | | |
| Alexandria..... | 18,060 | 5 | 1 | | | | | | | |
| Danville..... | 21,539 | 16 | | | | | 1 | | 21 | |
| Lynchburg..... | 29,956 | 15 | 1 | | | | | | 2 | |
| Norfolk..... | 115,777 | | 3 | | | | 1 | | 4 | 3 |
| Petersburg..... | 31,002 | 11 | | | | | | | 6 | 2 |
| Portsmouth..... | 54,387 | 15 | 2 | | | | | | | 2 |
| Richmond..... | 171,667 | 52 | 3 | | 22 | | | | 26 | 5 |
| Roanoke..... | 50,842 | 15 | 3 | | 1 | | | | | 2 |
| West Virginia: | | | | | | | | | | |
| Bluefield..... | 15,282 | 4 | 1 | | | | | | | |
| Charleston..... | 39,608 | 21 | | | | | 1 | | | |
| Clarksburg..... | 27,869 | 6 | 2 | | | | 3 | | | |
| Fairmont..... | 17,851 | | | | | | 3 | | | |

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population January 1, 1920, subject to correction. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|---------------------------------|--|-------------------------------|-------------|---------|----------|---------|----------------|---------|---------------|---------|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| West Virginia—Continued. | | | | | | | | | | |
| Huntington..... | 50, 177 | 17 | | | | | | | | 4 |
| Martinsburg..... | 12, 515 | | | | 22 | | | | | |
| Morgantown..... | 12, 127 | | | | | | 1 | | | |
| Moundsville..... | 10, 669 | 4 | 1 | | 3 | | 2 | | | |
| Parkersburg..... | 20, 050 | 5 | | | | | | | | 1 |
| Wheeling..... | 54, 322 | 19 | 1 | | 2 | | | | 18 | 1 |
| Wisconsin: | | | | | | | | | | |
| Appleton..... | 19, 561 | | 2 | | | | 1 | | | |
| Ashland..... | 11, 334 | | | | | | | | | |
| Beloit..... | 21, 284 | 1 | | | | | 2 | | 3 | |
| Eau Claire..... | 20, 880 | | | | | | | | 1 | |
| Fond du Lac..... | 23, 427 | 7 | 2 | | | | | | | |
| Green Bay..... | 31, 017 | 4 | 1 | | | | | | | |
| Janesville..... | 18, 293 | 2 | 1 | | | | | | | |
| Kenosha..... | 40, 472 | 6 | 4 | | | | | | | |
| La Crosse..... | 30, 363 | | | | | | 1 | | | |
| Madison..... | 38, 378 | | 1 | | 1 | | 2 | | | |
| Manitowoc..... | 17, 563 | | 1 | | | | | | 1 | |
| Milwaukee..... | 457, 147 | | 15 | | 2 | | 23 | | 31 | |
| Oshkosh..... | 33, 162 | 13 | 1 | | 1 | | | | | 2 |
| Racine..... | 58, 593 | 11 | 4 | 1 | 1 | | 5 | | 1 | 1 |
| Sheboygan..... | 30, 965 | | 4 | | | | | | | |
| Stevens Point..... | 11, 371 | | 1 | | | | | | | |
| Superior..... | 39, 624 | 9 | 2 | | | | 4 | | | 3 |
| Waukesha..... | 12, 558 | | 3 | | 1 | | | | | |
| West Allis..... | 13, 765 | | | | | | 1 | | | |
| Wyoming: | | | | | | | | | | |
| Casper..... | 11, 447 | 4 | | | 2 | | | | 1 | |
| Cheyenne..... | 13, 829 | 0 | 1 | | | | | | | |

FOREIGN AND INSULAR.

PLAGUE ON VESSEL.

Steamship "City of Genoa"—At Suez and Port Said.

The steamship *City of Genoa* from Karachi and Bombay, India, for Plymouth, England, arrived March 11, 1922, at Suez, Egypt, with a case of plague on board and a history of a death from plague occurring en route March 9, 1922. It was stated that numerous rats had been observed in the hold during the last previous stay of the vessel at Liverpool, England. The *City of Genoa* proceeded in quarantine to Port Said, Egypt, where a second case of plague and a suspect case, both occurring among the crew, were landed March 12, 1922. On March 13 the suspect case was declared positive and on March 15 the death of one of the cases landed at Port Said was reported.

AUSTRALIA.

Plague—Sydney.

During the week ended April 15, 1922, three cases of plague with one death were reported at Sydney, Australia.

CANADA.

Measles—Ontario—March, 1922.

The report of the Provincial Board of Health of the Province of Ontario, Canada, for the month of March, 1922, shows the occurrence in the Province of 695 cases of measles, as compared with 238 cases reported during the month of March, 1921. Four deaths from measles were reported for each period.

JAPAN.

Influenza—Aichi Prefecture.

Influenza has been reported in Aichi Prefecture, Japan, as follows: November, 1921, 23 cases with 3 deaths; December, 1921, 165 cases with 9 deaths; January, 1922, 689 cases with 5 deaths. The occurrence was stated to be fairly evenly distributed throughout the Prefecture. The type of the disease was stated to be mild and without serious complications. Statistics of mortality from the disease were reported not to be available. (Population of the Prefecture in 1912, 2,000,000.)

MEXICO.**Epidemic Smallpox—Monterey.**

Under date of April 13, 1922, epidemic smallpox was reported at Monterey, Mexico, with two deaths from the disease occurring April 12, 1922.

Trachoma on Vessels—Vera Cruz.

Two cases of trachoma were found on vessels leaving for United States ports from Vera Cruz during the month of March, 1922.

RUSSIA.**Typhus Fever—Recurrent Typhus—Lithuania.**

During the month of January, 1922, 814 cases of typhus fever with 73 deaths, and 357 cases of recurrent typhus with 12 deaths, were reported in the Province of Lithuania; Russia.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.**Reports Received During Week Ended April 21, 1922.¹****CHOLERA.**

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---------------|---------------------|--------|---------|--|
| India..... | ..... | ..... | ..... | Jan. 1-14, 1922: Deaths, 1,603. |
| Calcutta..... | Feb. 19-25..... | 19 | 17 | |
| Rangoon..... | Feb. 19-25..... | 6 | 4 | |
| Indo-China: | | | | |
| Saigon..... | Jan. 29-Feb. 18.... | 24 | 23 | Including 100 km. surrounding country. |
| Siam: | | | | |
| Bangkok..... | Feb. 12-18..... | 2 | ..... |  |

PLAGUE.

| | | | | |
|------------------------|---------------------|-------|-------|--|
| Brazil: | | | | |
| Bahia..... | Feb. 12-18..... | 1 | 1 | |
| Ceylon: | | | | |
| Colombo..... | Feb. 19-25..... | 1 | 1 | |
| China: | | | | |
| Amoy..... | Feb. 19-Mar. 4..... | ..... | ..... | Present in surrounding country. |
| Hongkong..... | Feb. 12-Mar. 4..... | 23 | 11 | |
| Egypt: | | | | |
| City— | | | | Jan. 1-Mar. 16, 1922: Cases, 43; deaths, 22. |
| Alexandria..... | Mar. 12-16..... | 2 | 2 | One case, 1 death septicemic. |
| Port Said..... | Mar. 15..... | 1 | 1 | |
| Suez..... | Mar. 14..... | 1 | 1 | |
| India..... | | | | Feb. 5-11, 1922: Cases, 2,805; deaths, 2,258. |
| Bombay..... | Feb. 5-11..... | 18 | 4 | |
| Karachi..... | Feb. 26-Mar. 6..... | 20 | 15 | |
| Madras Presidency..... | do..... | 398 | 282 | |
| Rangoon..... | Feb. 19-25..... | 51 | 45 | |
| Indo-China: | | | | |
| Saigon..... | Jan. 29-Feb. 4..... | ..... | ..... | Plague-infected rats: Four. |
| Java..... | | | | Islands of Java and Madoera: Jan. 1-31, 1922—cases, 976; fatal. |
| East Java— | | | | |
| Soerabaya..... | Feb. 5-11..... | 1 | 1 | |
| Mexico: | | | | |
| Tampico..... | ..... | ..... | ..... | Apr. 2-8, 1922: One plague-infected rat; total infected rats, Jan. 1-Apr. 8, 1922: 14. |

¹ From medical officers of the Public Health Service, American consuls, and other sources.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received During Week Ended April 21, 1922—Continued.

PLAGUE—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|--------------------------|-----------------|--------|---------|--|
| Senegal: | | | | |
| Dakar..... | Feb. 1-28..... | 2 | ..... |  |
| Siam: | | | | |
| Bangkok..... | Feb. 5-18..... | 8 | 5 | |
| Straits Settlements: | | | | |
| Singapore..... | Feb. 22-28..... | 24 | 6 | |
| On vessel: | | | | |
| S. S. City of Genoa..... | Mar. 9-15..... | 4 | 2 | At Suez and Port Said, Egypt, from Karachi and Bombay, India, for Plymouth, England: One fatal case at sea en route to Suez; 1 case on arrival. At Port Said, 2 cases, of which 1 fatal. |

SMALLPOX.

| | | | | |
|------------------------|----------------------|-------|-------|---|
| Brazil: | | | | |
| Bahia..... | Jan. 29-Feb. 4..... | 1 | ..... |  |
| Rio de Janeiro..... | Feb. 26-Mar. 11..... | 18 | 4 | |
| Sao Paulo..... | Jan. 2-8..... | 1 | ..... |  |
| Canada: | | | | |
| Ontario— | | | | |
| Niagara Falls..... | Apr. 4-10..... | 2 | ..... | Reported to be increasing; type mild. |
| Toronto..... | Mar. 26-Apr. 1..... | 4 | ..... |  |
| Ceylon: | | | | |
| Colombo..... | Feb. 19-25..... | 1 | ..... | Port case. |
| China: | | | | |
| Amoy..... | Feb. 19-Mar. 4..... | ..... | 3 | |
| Hongkong..... | Feb. 12-Mar. 4..... | 25 | 20 | |
| Nanking..... | Feb. 25-Mar. 11..... | ..... | ..... | Present. |
| Shanghai..... | Mar. 5-12..... | 1 | 5 | Cases, foreign: deaths, native. |
| Haiti..... | ..... | ..... | ..... | Mar. 19-25, 1922: A few cases. |
| India: | | | | Jan. 1-14, 1922: Cases, 329. |
| Bombay..... | Feb. 5-11..... | 5 | 1 | |
| Calcutta..... | Feb. 19-25..... | 10 | 10 | |
| Karachi..... | Feb. 29-Mar. 4..... | 8 | 4 | |
| Madras..... |do..... | 91 | 36 | |
| Rangoon..... | Feb. 19-25..... | 22 | 1 | |
| Indo-China: | | | | |
| Saigon..... | Jan. 29-Feb. 18..... | 4 | 2 | Including 100 km. surrounding country. |
| Japan: | | | | |
| Taiwan Island..... | Mar. 1-10..... | 1 | ..... |  |
| Mexico: | | | | |
| Guadalajara..... | Feb. 1-28..... | 20 | 3 | |
| Mexico City..... | Feb. 19-Mar. 4..... | 32 | ..... | Including municipalities in Federal District. |
| Monterey..... | Apr. 12..... | ..... | 2 | Epidemic. |
| San Luis Potosi..... | Mar. 26-Apr. 1..... | ..... | 6 | |
| Senegal: | | | | |
| Dakar..... | Feb. 1-28..... | 3 | 3 | |
| Spain: | | | | |
| Valencia..... | Mar. 12-18..... | 1 | 1 | |
| Straits Settlements: | | | | |
| Singapore..... | Feb. 12-18..... | 21 | 2 | |
| Switzerland: | | | | |
| Zurich..... | Mar. 12-18..... | 5 | ..... |  |
| Turkey: | | | | |
| Constantinople..... |do..... | 14 | 1 | |
| Union of South Africa: | | | | |
| Southern Rhodesia..... | Feb. 16-22..... | 80 | ..... | Natives. |

TYPHUS FEVER.

| | | | | |
|--------------|-----------------|---|-------|--|
| Algeria: | | | | |
| Algiers..... | Mar. 1-10..... | 1 | ..... |  |
| Oran..... | Mar. 11-20..... | 7 | 4 | |
| Bulgaria: | | | | |
| Sofia..... | Mar. 12-18..... | 1 | ..... |  |
| Egypt: | | | | |
| Cairo..... | Jan. 15-21..... | 1 | 1 | |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received During Week Ended April 21, 1922—Continued.****TYPHUS FEVER—Continued.**

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---------------------|-----------------|--------|---------|---|
| Mexico: | | | | |
| Mexico City..... | Feb. 19-25..... | 39 | | Including municipalities in Federal District. |
| Russia: | | | | |
| Lithuania..... | Jan. 1-31..... | 814 | 73 | Recurrent typhus: Cases, 357; deaths, 12. |
| Turkey: | | | | |
| Constantinople..... | Mar. 12-18..... | 16 | | |

YELLOW FEVER.

| | | | | |
|-----------------|-----------------|---|---|--|
| Brazil: | | | | |
| Pernambuco..... | Feb. 19-25..... | 1 | 1 | |

Reports Received from December 31, 1921, to April 14, 1922.**CHOLERA.**

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---------------------|----------------------|--------|---------|---|
| India: | | | | |
| Bombay..... | Oct. 30-Nov. 5..... | 1 | | Oct. 2-Dec. 31, 1921: Deaths, 37,749. (Corrected report.) |
| Do..... | Jan. 29-Feb. 4..... | 1 | 1 | |
| Calcutta..... | Oct. 23-Dec. 31..... | 71 | 60 | |
| Do..... | Jan. 1-Feb. 18..... | 116 | 102 | |
| Karachi..... | Nov. 6-12..... | | 1 | |
| Madras..... | Dec. 11-31..... | 4 | 1 | |
| Do..... | Jan. 1-Feb. 4..... | 10 | 7 | |
| Rangoon..... | Oct. 1-Dec. 31..... | 30 | 24 | |
| Do..... | Jan. 1-Feb. 11..... | 24 | 21 | |
| Indo-China: | | | | |
| Saigon..... | Nov. 6-12..... | 1 | 1 | |
| Java: | | | | |
| West Java— | | | | |
| Batavia..... | Nov. 1-7..... | 2 | 2 | At Lebak. |
| Philippine Islands: | | | | |
| Manila..... | Nov. 13-Dec. 31..... | 49 | 18 | |
| Do..... | Jan. 1-Feb. 18..... | 76 | 24 | |
| Province— | | | | |
| Bulacan..... | Dec. 25-31..... | 1 | | |
| Pampanga..... |do..... | 1 | | |
| Zambales..... | Dec. 11-31..... | 31 | 18 | |
| Poland..... | | | | Aug. 14-Sept. 10, 1921: Cases, 4; deaths, 1. |
| Russia: | | | | |
| Kharkoff..... | Jan. 28..... | | | Present. |
| Kieff..... | Dec. 15-Jan. 11..... | 259 | | |
| Latvia— | | | | |
| Riga..... | | | | At quarantine station in October, 1921: One case. |
| Odessa..... | Jan. 28..... | | | Present. |
| Siam: | | | | |
| Bangkok..... | Oct. 23-Dec. 24..... | 8 | 4 | |
| Do..... | Jan. 29-Feb. 4..... | 2 | 2 | |

PLAGUE.

| | | | | |
|------------------|---------------------|---|---|---|
| Asia Minor: | | | | |
| Smyrna..... | Nov. 27-Dec. 3..... | 1 | 1 | |
| Australia: | | | | |
| New South Wales— | | | | |
| Sydney..... |do..... | 2 | 1 | Dec. 7-13: 4 plague rats. Jan. 15-21, 1922: 1 plague rat. |
| Do..... | Jan. 29-Apr. 8..... | 8 | 1 | Mar. 26-Apr. 1, 1922: Cases reported, 6 to 10; 1 death. |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

PLAGUE—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|-----------------------------|----------------------|--------|---------|--|
| Australia—Continued. | | | | |
| Queensland— | | | | |
| Aramac..... | Mar. 19-25..... | 1 | 1 | Inland town on railroad about 150 miles from coast. |
| Brisbane..... | Oct. 30-Dec. 31.... | 27 | 20 | Total, Aug. 22-Dec. 31, 1921: Cases, 41; deaths, 27. Total infected rats, 54. Total cases, Jan. 1-Mar. 18, 1922: 10. Total infected rats, 10. |
| Do..... | Jan. 1-Mar. 18..... | 10 | | |
| Bundaberg..... | Mar. 5-11..... | 1 | | |
| Cairns..... | Oct. 30-Dec. 31.... | 6 | 3 | Plague rats, 9. |
| Do..... | Jan. 1-7..... | | 1 | |
| Cooktown..... | Oct. 30-Nov. 5..... | 1 | | Pestis minor. |
| Ingham..... | | | | Nov. 6-Dec. 24, 1921: Plague rats, 14. Jan. 1-14, 1922: 2 plague rats. |
| Inisfail..... | | | | Nov. 27-Dec. 3, 1921: 1 plague rat. |
| Ipswich..... | Dec. 11-17..... | 1 | 1 | |
| Port Douglas..... | Nov. 13-19..... | 1 | 1 | |
| Townsville..... | Nov. 20-Dec. 3..... | 2 | 2 | Total cases, 27; deaths, 18. |
| Do..... | Jan. 1-14..... | | 2 | To Jan. 14, 1922: Cases, 32; deaths, 21. |
| Azores: | | | | |
| Islands— | | | | |
| Fayal..... | Jan. 16-22..... | 2 | 2 | |
| St. Michael..... | | | | Nov. 27-Dec. 31, 1921: Cases, 23; deaths, 9. Jan. 1-21, 1922: Cases, 13; deaths, 8. Jan. 22-Mar. 4, 1922: Cases, 51; deaths, 25; occurring at Arrifes, Capelas, Fenaes, Ribeira Grande and Santo Antonio; distance from port of Ponta Delgada, 3 to 9 miles. |
| Arrifes..... | Dec. 25-31..... | 1 | 1 | 3 miles from port. |
| Do..... | Jan. 1-7..... | 1 | | |
| Fenaes d' Ajuda..... | Nov. 27-Dec. 3..... | | | Present. 6 miles from port. |
| Do..... | Jan. 15-21..... | 3 | 2 | |
| Ribeira Grande..... | Nov. 13-Dec. 10..... | 19 | 8 | 9 miles from port. |
| Do..... | Jan. 8-14..... | 9 | 6 | |
| Livramento..... | Dec. 4-10..... | 2 | | Vicinity of Ponta Delgada. |
| Ponta Delgada..... | do..... | 1 | | |
| Brazil: | | | | |
| Bahia..... | Oct. 30-Dec. 31.... | 13 | 12 | |
| Do..... | Jan. 1-28..... | 12 | 9 | |
| Para..... | Feb. 6-12..... | | 1 | |
| Rio de Janeiro..... | Jan. 22-28..... | 1 | 1 | |
| British East Africa: | | | | |
| Uganda..... | Aug. 1-Nov. 29.... | 169 | 140 | Aug. 1-Oct. 31, 1921: Reports of inspectors, deaths, 343; reports of chiefs, deaths, 651. |
| Cape Verde Islands: | | | | |
| St. Vincent..... | Mar. 16..... | | | Present; no plague mortality reported during previous 5-month period. August, 1921: Cases, 6; deaths, 3. |
| Ceylon: | | | | |
| Colombo..... | Oct. 30-Dec. 31.... | 13 | 10 | Oct. 30-Dec. 24, 1921: Rodent plague, 6. |
| Do..... | Jan. 1-Feb. 18..... | 22 | 19 | Infected rats, 10. |
| Chile: | | | | Mar. 5-11, 1922: 1 plague rat. |
| Antofagasta..... | | | | |
| China: | | | | |
| Hongkong..... | Nov. 20-Dec. 17.... | 6 | | |
| Do..... | Jan. 1-Feb. 11..... | 19 | 10 | |
| Ecuador: | | | | |
| Guayaquil..... | Nov. 16-Dec. 31.... | 18 | 6 | Rats examined, 2,958; found infected, 90. Total, July-Dec. 13, 1921: Cases, 28. Jan. 1-Feb. 23, 1922: Rats examined, 11,900; found infected, 295. |
| Do..... | Jan. 1-Feb. 28..... | 31 | 12 | |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

PLAGUE—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|----------------------------|----------------------|--------|---------|---|
| Egypt | | | | Jan. 1-Dec. 31, 1921: Cases, 356; deaths, 153. Jan. 1-Mar. 9, 1922: Cases, 39; deaths, 19. Feb. 12-18, 1922: 1 plague rodent. |
| City— | | | | |
| Alexandria..... | Dec. 5-30..... | 7 | 2 | |
| Do..... | Jan. 17-Mar. 7..... | 6 | 3 | |
| Port Said..... | Dec. 20..... | 1 | | |
| Suez..... | Nov. 22-Dec. 31..... | 16 | 9 | |
| Do..... | Jan. 2-29..... | 4 | 2 | |
| Province— | | | | |
| Assouan..... | Feb. 28..... | 1 | 1 | Septicemic. |
| Fayoum..... | Feb. 17-Mar. 9..... | 5 | 1 | |
| Gharbieh..... | Feb. 17-28..... | 4 | | |
| Girgeh..... | Jan. 12..... | 1 | | Do. |
| Keneh..... | Dec. 1..... | 1 | | Do. |
| Do..... | Jan. 21-Feb. 28..... | 4 | 3 | Pneumonic, 1 case, 1 death; septicemic, 1 case. |
| Minieh..... | Feb. 21-Mar. 9..... | 3 | 3 | Septicemic. |
| Greece: | | | | |
| Preveza..... | Feb. 8..... | | | Outbreak. Port on the Ionian Sea. |
| India | | | | Oct. 23-Dec. 31, 1921: Cases, 8,690; deaths, 6,458 (reports, weeks ended Dec. 3 and 17, 1921, missing). Jan. 1-Feb. 4, 1922: Cases, 10,246; deaths, 7,842. |
| Bombay..... | Oct. 23-Dec. 24..... | 7 | 6 | |
| Do..... | Jan. 1-Feb. 4..... | 15 | 14 | |
| Calcutta..... | Jan. 29-Feb. 11..... | 2 | 2 | |
| Karachi..... | Nov. 6-Dec. 31..... | 5 | 5 | |
| Do..... | Jan. 1-Feb. 25..... | 62 | 49 | |
| Madras..... | Dec. 11-17..... | 1 | | |
| Madras Presidency..... | Nov. 13-Dec. 31..... | 2,047 | 1,438 | |
| Do..... | Jan. 1-Feb. 25..... | 2,784 | 2,011 | |
| Rangoon..... | Oct. 1-Dec. 31..... | 139 | 129 | |
| Do..... | Jan. 1-Feb. 11..... | 206 | 186 | |
| Indo-China: | | | | |
| Saigon..... | | | | Nov. 6-Dec. 24, 1921: Rodent plague, 10. Jan. 8-28, 1922: Rodent plague, 4. |
| Italy: | | | | |
| Catania..... | Nov. 27..... | 1 | 1 | Total, Oct. 16-Nov. 27, 1921: Cases, 8 (of which 1 doubtful); deaths, 5. Jan.-Feb., 1922: 28 plague-infected rats found. |
| Naples (Province)— | | | | |
| Torre Annunziata..... | Oct. 22-Dec. 27..... | 2 | | 17 miles from city of Naples. |
| Venice..... | Oct. 27..... | 1 | | |
| Java | | | | Islands of Java and Madoera: Nov. 1-Dec. 31, 1921: Deaths, 1,781. |
| East Java— | | | | |
| Soerabaya..... | Oct. 30-Dec. 10..... | 11 | 12 | |
| Do..... | Jan. 1-28..... | 3 | 3 | |
| Madagascar: | | | | |
| Tananarive..... | Mar. 2..... | 38 | | Among natives. Entire city reported infected. Feb. 4: Present. |
| Mauritius (Island): | | | | |
| Port Louis..... | Oct. 29-Dec. 30..... | 241 | 142 | Plague-infected rats, 176; plague-infected cats, 36. (Corrected report.) Dec. 1-30, 1921: Dead rats found, 155; dead cats, 4. Dead rats found, 17. |
| Do..... | Dec. 31-Jan. 11..... | 7 | 2 | |
| Mesopotamia: | | | | |
| Bagdad..... | Oct. 1-31..... | 1 | 1 | |
| Mexico: | | | | |
| Tampico..... | Mar. 26-Apr. 1..... | 1 | | Dec. 18-31, 1921: Infected rodents found, 5; total, Jan. 1-Dec. 31, 1921, infected rodents, 322; Jan. 1-Apr. 1, 1922, 13 plague-infected rodents. |
| Vera Cruz..... | | | | One infected rodent caught Dec. 5, 1921. |
| Peru | | | | Nov. 17-Dec. 31, 1921: Cases, 94; deaths, 35. Occurring in Callao, Huacho, Huaras, Lima, Magdalena Vieja, Paita, Salaverry, and Sechura, Jan. 1-Feb. 28, 1922: Cases, 141; deaths, 62. (Corrected report to Feb. 15, 1922.) |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

PLAGUE—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|-----------------------------------|----------------------|--------|---------|--|
| Peru—Continued. | | | | |
| Localities— | | | | |
| Bambamarca..... | Jan. 1-15..... | ..... | ..... | Present. Rural. |
| Barranco..... | Jan. 16-31..... | 1 | ..... | ..... |
| Callao..... | Jan. 1-Feb. 28..... | 7 | 4 | Rural. Year, 1921: Deaths, 30. |
| Casma..... | Feb. 1-28..... | 11 | 3 | ..... |
| Chiclayo..... | Jan. 16-Feb. 28..... | 19 | 16 | ..... |
| Chilca..... | Jan. 16-Feb. 15..... | 11 | 2 | ..... |
| Cutervo..... | Jan. 1-15..... | 1 | ..... | Rural. |
| Guadalupe..... | Jan. 1-31..... | 7 | 2 | ..... |
| Huacho..... | Jan. 1-Feb. 15..... | 3 | ..... | ..... |
| Huacayoc..... | Jan. 16-31..... | ..... | ..... | Province. Present. |
| Huaral..... | Jan. 1-15..... | 2 | ..... | ..... |
| Jayanca..... | do..... | ..... | ..... | Present. |
| Lambayeque..... | Jan. 16-Feb. 15..... | 3 | 1 | ..... |
| Lima..... | Jan. 1-Feb. 28..... | 14 | 4 | In district, 20 cases; 6 deaths. |
| Mollendo..... | Feb. 1-28..... | 3 | ..... | ..... |
| Pacasmayo..... | do..... | 1 | ..... | ..... |
| Payta..... | Jan. 1-Feb. 28..... | 28 | 21 | ..... |
| Plura..... | Feb. 1-15..... | 1 | ..... | ..... |
| Salaverry..... | Jan. 16-31..... | 1 | ..... | ..... |
| San Pedro..... | Jan. 1-15..... | 1 | ..... | ..... |
| Sullana..... | Jan. 1-Feb. 28..... | 3 | 3 | ..... |
| Trujillo..... | Feb. 1-15..... | ..... | ..... | Present. |
| Tumbes..... | do..... | 4 | ..... | ..... |
| Portugal: | | | | |
| Lisbon..... | Dec. 15..... | 1 | 1 | ..... |
| Portuguese West Africa: | | | | |
| Angola— | | | | |
| Loanda..... | Oct. 9-Nov. 5..... | ..... | 2 | ..... |
| Mossamedes..... | Feb. 14..... | ..... | ..... | Present. |
| Rhodes (Island) (Aegean Sea)..... | Oct. 13..... | 3 | 1 | ..... |
| Senegal: | | | | |
| Dakar..... | ..... | ..... | ..... | Jan. 1-31, 1922: 1 rodent plague. |
| Siam: | | | | |
| Bangkok..... | Oct. 23-Dec. 31..... | 7 | 6 | ..... |
| Do..... | Jan. 8-Feb. 4..... | 14 | 9 | ..... |
| Straits Settlements: | | | | |
| Singapore..... | Nov. 6-Dec. 31..... | 3 | 3 | ..... |
| Do..... | Jan. 15-Feb. 11..... | 6 | 5 | ..... |
| Syria: | | | | |
| Beirut..... | Oct. 9-Nov. 20..... | 10 | 4 | ..... |
| Turkey: | | | | |
| Constantinople..... | Jan. 1-7..... | 1 | ..... | ..... |
| Union of South Africa: | | | | |
| Orange Free State— | | | | |
| Boschrand Farm..... | Jan. 25..... | 3 | 3 | 10 miles from Kroonstad. Plague-infected mouse found. |
| Bothaville..... | Nov. 19..... | ..... | ..... | In native herd boy. |
| Hoopstad..... | Dec. 4-10..... | 1 | ..... | ..... |
| Klipfontein (farm)..... | Feb. 10..... | 1 | 1 | 12 miles from Bothaville. Plague infection found in rats on adjoining farm, week ended Feb. 4, 1922. |
| On vessel: | | | | |
| S. S. Polycarp..... | Feb. 3..... | 1 | ..... | At Para, Brazil, from Ceara, via Manaus, Maranham, and Para for New York. |
| S. S. Tango Maru..... | Dec. 31..... | 1 | ..... | At Thursday Island Quarantine, Australia, from Kobe, via Nagasaki, Hongkong, Manila, and Zamboanga. |
| S. S. Warwickshire..... | Feb. 12..... | ..... | ..... | At Liverpool, England, from Rangoon. Plague rats, 27; 1 plague mouse. |

SMALLPOX.

| | | | | |
|--------------------|---------------------|-------|-------|--------------|
| Arabia: | | | | |
| Aden..... | Dec. 25-31..... | ..... | 1 | ..... |
| Do..... | Jan. 8-14..... | ..... | 1 | ..... |
| Asia Minor: | | | | |
| Smyrna..... | Jan. 15-21..... | 1 | ..... | In district. |
| Algeria: | | | | |
| Algiers..... | Jan. 1-Feb. 28..... | 2 | ..... | ..... |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|------------------------------------|----------------------|--------|---------|--|
| Bolivia: | | | | |
| La Paz..... | Aug. 1-Dec. 31..... | 60 | 41 | |
| Do..... | Jan. 1-31..... | 15 | 9 | |
| Brazil: | | | | |
| Bahia..... | Nov. 6-Dec. 17..... | 4 | | |
| Do..... | Jan. 8-14..... | 1 | | |
| Rio de Janeiro..... | Nov. 13-Dec. 31..... | 13 | 2 | |
| Do..... | Jan. 1-23..... | 16 | 4 | |
| Sao Paulo..... | Oct. 31-Dec. 25..... | 11 | | |
| Do..... | Dec. 26-Jan. 1..... | 1 | | |
| British East Africa: | | | | |
| Uganda..... | Aug. 1-Nov. 30..... | 22 | 3 | |
| Canada: | | | | |
| British Columbia— | | | | |
| Vancouver..... | Dec. 25-31..... | 3 | | |
| Do..... | Jan. 29-Feb. 4..... | 1 | | |
| Victoria..... | Mar. 12-18..... | 1 | | |
| Manitoba..... | | | | Year 1921: Cases, 71. |
| Winnipeg..... | Nov. 20-Dec. 3..... | 2 | | |
| New Brunswick— | | | | |
| Charlotte County | | | | Dec. 17, 1921: 31 cases previously reported, occurring at Andersonville and Blacks Harbor. |
| St. Stephen..... | Dec. 11-17..... | 2 | | Dec. 18-24, 1921: Cases, 3. Dec. 25-31, 1921: Cases, 2. Feb. 19-28, 1922: Cases, 2. |
| Restigouche County..... | | | | Dec. 11-31, 1921: Cases, 3. Feb. 12-25, 1922: Cases, 4. |
| Charlo..... | Feb. 19-25..... | 2 | | 20 miles from Campbellton. |
| Westmoreland County..... | Mar. 5-13..... | 13 | | |
| York County..... | Dec. 11-17..... | 1 | | |
| Do..... | Jan. 29-Feb. 4..... | 1 | | |
| Ontario: | | | | Dec. 1-31, 1921: Cases, 123. Jan. 1-31, 1922: Cases, 170; Feb. 1-28, 1922: Cases, 185. |
| Fort Williams and Port Arthur..... | Jan. 1-21..... | 3 | | |
| Hamilton..... | Jan. 22-Mar. 25..... | 4 | | |
| Kingston..... | Jan. 17-Feb. 11..... | 5 | | Jan. 16-20, 1922: Two cases reported. |
| Niagara Falls..... | Dec. 11-24..... | 2 | | |
| Do..... | Jan. 15-Mar. 18..... | 23 | | |
| North Bay..... | Feb. 12-18..... | 1 | | |
| Ottawa..... | Dec. 11-24..... | 17 | | |
| Do..... | Jan. 1-Mar. 25..... | 34 | | |
| Sault Ste. Marie..... | Jan. 15-21..... | 1 | | |
| Toronto..... | Dec. 11-24..... | 4 | | |
| Do..... | Jan. 1-Mar. 11..... | 47 | | |
| Windsor..... | Jan. 8-Mar. 4..... | 3 | | |
| Quebec— | | | | |
| Montreal..... | Dec. 11-24..... | 1 | | |
| Saskatchewan— | | | | |
| Regina..... | Jan. 1-Feb. 11..... | 4 | | |
| Saskatoon..... | Dec. 1-18..... | 6 | | |
| Do..... | Feb. 5-13..... | 3 | | |
| Canal Zone: | | | | |
| Ancon..... | | | | Admitted to hospital by transfer from Panama, Nov. 30, 1921, 1 case. Arrived on sailing vessel from a village on south coast. |
| Ceylon: | | | | |
| Colombo..... | Nov. 27-Dec. 3..... | 1 | | Port case. |
| Do..... | Jan. 29-Feb. 4..... | 1 | | |
| Chile: | | | | |
| Concepcion..... | Nov. 23-Dec. 26..... | | 25 | Jan.-Sept., 1921: Cases, 5,500 (approximately); deaths, 2,500 (approximately). Nov. 15-21, 1921: Diffused in southern provinces; not epidemic. |
| Do..... | Dec. 27-Jan. 30..... | | 21 | Nov. 15-21, 1921: Present. In vicinity, at Hualqui, cases, 32; deaths, 5. Dec. 4-17, 1921: Present. |
| Coronel Curanilahue..... | Nov. 15-Dec. 17..... | | | Present. |
| Lota..... | Nov. 15-21..... | 4 | | Oct. 28, 1921-Jan. 31, 1922: Cases, 879; deaths, 338. |
| Osorno..... | | | | From beginning of outbreak to Feb. 15, 1922: Cases, 87. |
| Talcahuano..... | Nov. 15-Dec. 24..... | 6 | | Jan. 8-28, 1922: Present. |
| Do..... | Jan. 29-Feb. 18..... | 5 | | From beginning of outbreak to Feb. 15, 1922: Cases, 80. |
| Temuco..... | Nov. 15-21..... | 9 | | |
| Valparaiso..... | Oct. 23-Dec. 31..... | | 94 | |
| Do..... | Jan. 1-21..... | | 39 | |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---------------------------|----------------------|--------|---------|--|
| China: | | | | |
| Amoy..... | Nov. 16-Dec. 31..... | ..... | 7 | Nov. 23-29, 1921: Present, Jan. 22-28, 1922: Present. |
| Do..... | Jan. 1-Feb. 18..... | ..... | 7 | |
| Antung..... | Nov. 28-Dec. 18..... | 4 | 1 | |
| Canton..... | Dec. 1-31..... | ..... | ..... | Present. |
| Changsha..... | Jan. 16-22..... | 1 | ..... |  |
| Chungking..... | Nov. 6-Dec. 31..... | ..... | ..... | Do. |
| Do..... | Jan. 1-Feb. 18..... | ..... | ..... | Do. |
| Foochow..... | Nov. 6-Dec. 31..... | ..... | ..... | Do. |
| Do..... | Jan. 1-Feb. 11..... | ..... | ..... | Do. |
| Hankow..... | Nov. 13-Dec. 31..... | ..... | ..... | Do. |
| Do..... | Jan. 1-21..... | 2 | ..... |  |
| Harbin..... | Nov. 14-Dec. 11..... | 5 | ..... |  |
| Do..... | Dec. 26-Feb. 12..... | 3 | ..... |  |
| Hongkong..... | Dec. 2-31..... | 5 | ..... |  |
| Do..... | Jan. 1-Feb. 11..... | 16 | 10 | |
| Mukden..... | Nov. 20-Dec. 31..... | ..... | ..... | Do. |
| Do..... | Jan. 15-Mar. 10..... | ..... | ..... | Do. |
| Nanking..... | Nov. 20-Dec. 17..... | ..... | ..... | Do. |
| Do..... | Jan. 15-Feb. 25..... | ..... | ..... | Do. |
| Shanghai..... | Oct. 31-Dec. 31..... | 23 | 194 | Cases, foreign; deaths, Chinese and foreign. Populations: Native, 790,000; foreign, 24,000. Corrected report. |
| Do..... | Jan. 2-Mar. 5..... | 33 | 194 | Cases, foreign; deaths, native. Jan. 14, 1922: Seriously prevalent. |
| Tientsin..... | Dec. 11-17..... | 2 | ..... | In Mission Hospital. |
| Tsingtau..... | Jan. 1-Feb. 19..... | 31 | 11 | |
| Chosen (Korea): | | | | |
| Fusan..... | Dec. 1-31..... | 3 | 1 | |
| Do..... | Jan. 1-Feb. 28..... | 80 | 19 | |
| Gensan..... | Feb. 1-28..... | 1 | ..... |  |
| Seoul..... | Jan. 1-Feb. 28..... | 8 | 3 | |
| Colombia: | | | | |
| Cartagena..... | Nov. 22-28..... | ..... | 1 | Present. |
| Santa Marta..... | Feb. 19-25..... | ..... | ..... | Dec. 4-31, 1921: Cases, 361. Jan. 1-31, 1922: Cases, 257. |
| Cuba: | | | | |
| Antilla..... | Dec. 12-31..... | 3 | ..... | At Preston. |
| Do..... | Jan. 8-Feb. 4..... | 13 | 1 | |
| Cienfuegos..... | Jan. 22-Mar. 4..... | 5 | 1 | Two cases from outside city limits. |
| Santiago..... | Jan. 1-Feb. 28..... | 8 | 1 | |
| Czechoslovakia: | | | | |
| Prague..... | Dec. 18-24..... | ..... | 42 | |
| Dominion Republic: | | | | |
| Puerta Plata..... | Jan. 13..... | 100 | 5 | Oct. 1-31, 1921: Cases, 653; deaths, 54. Jan. 2-Feb. 4, 1922: Cases, 6,922; deaths, 185. |
| San Pedro de Macoris..... | Nov. 20-Dec. 31..... | 31 | 1 | In district, widely diffused, with 1,000 estimated cases with 100 deaths. |
| Do..... | Jan. 14-Feb. 4..... | 122 | ..... | Estimate of about 500 cases of smallpox in the district of Macoris; of this amount 50 within the city limits. |
| Santo Domingo..... | Nov. 15-Dec. 5..... | ..... | ..... | In surrounding country. Feb. 12-25: 66 cases. Feb. 26-Mar. 11: 61 cases. |
| | | | | In district, 401 cases estimated. Dec. 17-24, 1921: Present in vicinity. Jan. 9-16, 1922: In surrounding country, 1,745 cases (estimated). |
| Ecuador: | | | | |
| Guayaquil..... | Nov. 16-Dec. 31..... | 7 | ..... | And vicinity. |
| Do..... | Jan. 1-Feb. 28..... | 3 | ..... |  |
| Egypt: | | | | |
| Alexandria..... | Nov. 26-Dec. 2..... | 1 | 1 | |
| Cairo..... | do..... | 2 | ..... |  |
| Port Said..... | Dec. 20-28..... | 1 | ..... | Dec. 16-23, 1921: 1 case. |
| Do..... | Jan. 22-28..... | 1 | ..... |  |
| Finland: | | | | |
| Do..... | | | | Nov. 16-30, 1921: 1 case. |
| Fiume: | | | | |
| | | | | Feb. 1-15, 1922: Cases, 19. |
| | | | | Dec. 27, 1921-Jan. 2, 1922: Cases, 2. |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received from December 31, 1921, to April 14, 1922—Continued.****SMALLPOX—Continued.**

| Place. | Date. | Cases. | Deaths. | Remarks. |
|--------------------------|----------------------|--------|---------|---|
| Great Britain: | | | | |
| Manchester..... | Jan. 1-7..... | 4 | | |
| Nottingham..... | Dec. 4-31..... | 18 | | |
| Do..... | Jan. 8-28..... | 3 | | |
| Swansea..... | Jan. 17-23..... | 2 | | Imported on vessel from Persian Gulf. |
| Haiti..... | | | | Jan. 22-Mar. 18, 1922: A few cases. |
| Cape Haitien..... | Dec. 11-24..... | 8 | | |
| Do..... | Jan. 1-Feb. 18..... | 21 | 1 | |
| Port au Prince..... | Dec. 11-31..... | | | Present. |
| Do..... | Jan. 15-21..... | 2 | | |
| India..... | | | | Oct. 2-8, 1921: Deaths, 28. Oct. 23-Nov. 19, 1921: Deaths, 266. Nov. 27-Dec. 31, 1921: Deaths, 533. |
| Bombay..... | Oct. 23-Dec. 31..... | 3 | 2 | |
| Do..... | Jan. 1-Feb. 4..... | 5 | | |
| Calcutta..... | Nov. 13-Dec. 31..... | 37 | 28 | |
| Do..... | Jan. 1-Feb. 18..... | 100 | 92 | |
| Karachi..... | Nov. 11-Dec. 31..... | 28 | 9 | |
| Do..... | Jan. 1-Feb. 25..... | 52 | 33 | |
| Madras..... | Nov. 13-Dec. 31..... | 183 | 59 | |
| Do..... | Jan. 1-Feb. 25..... | 511 | 176 | |
| Rangoon..... | Oct. 1-Dec. 31..... | 6 | | |
| Do..... | Jan. 15-Feb. 11..... | 63 | | |
| Indo-China: | | | | |
| Saigon..... | Dec. 18-24..... | 1 | 1 | City and district. |
| Do..... | Jan. 8-21..... | 4 | 1 | Do. |
| Italy: | | | | |
| Catania..... | Feb. 20-25..... | 1 | | In Province. |
| Genoa..... | Nov. 10-20..... | 1 | | |
| Messina..... | | | | |
| Messina..... | Nov. 28-Dec. 4..... | 1 | | |
| Pettineo..... | Nov. 14-Dec. 4..... | 2 | | |
| Venice..... | Jan. 30-Feb. 5..... | 2 | | |
| Japan: | | | | |
| Kobe..... | Jan. 23-29..... | 3 | 1 | |
| Taiwan Island..... | Dec. 1-31..... | 2 | 1 | |
| Do..... | Feb. 14-20..... | 1 | 1 | |
| Yokohama..... | Jan. 9-29..... | 3 | | Corrected report. |
| Java: | | | | |
| East Java— | | | | |
| Soerabaya..... | Jan. 1-7..... | 4 | | |
| West Java— | | | | |
| Bandoeng..... | Nov. 18-Dec. 8..... | 2 | | |
| Batavia..... | Nov. 18-Dec. 22..... | 11 | 9 | City and Province. |
| Do..... | Dec. 30-Jan. 26..... | 3 | 3 | In Province: Cases, 23; deaths, 4; |
| Buitenzorg..... | Nov. 25-Dec. 8..... | 7 | 1 | 13 cases, with 3 deaths, not |
| Krawang..... | Nov. 18-24..... | 1 | | locally stated. Feb. 3-9, 1922: |
| Lebak..... | Nov. 18-Dec. 8..... | 7 | 4 | Cases, 10; deaths, 1. |
| Pandeglang..... | Nov. 25-Dec. 1..... | | 1 | |
| Tangerang..... | Nov. 18-Dec. 8..... | 5 | 1 | |
| Liberia: | | | | |
| Grand Bassa County..... | Nov. 30..... | | | Present at Lower Buchanan. |
| Mesopotamia: | | | | |
| Bagdad..... | Oct. 1-Nov. 30..... | 117 | 50 | Epidemic with high mortality November, 1921. |
| Mexico: | | | | |
| Chihuahua..... | Dec. 5-11..... | | 1 | |
| Do..... | Jan. 23-Feb. 19..... | | 2 | |
| Guadalajara..... | Nov. 1-Dec. 31..... | 6 | | |
| Do..... | Jan. 1-31..... | 11 | 2 | |
| Mexico City..... | Nov. 20-Dec. 31..... | 64 | | Including municipalities in Federal District. |
| Do..... | Jan. 1-Feb. 18..... | 107 | | Do. |
| Saltillo..... | Jan. 29-Feb. 4..... | | 1 | From San Salvador, Zacatecas. |
| San Luis Potosi..... | Dec. 18-24..... | 2 | | |
| Do..... | Jan. 8-Mar. 18..... | | 12 | |
| Torreón..... | Dec. 1-31..... | 134 | | |
| Do..... | Jan. 1-Feb. 28..... | | 82 | |
| Newfoundland: | | | | |
| St. Johns..... | Feb. 4-10..... | 1 | | |
| Nicaragua: | | | | |
| Managua..... | Mar. 5..... | | | Present. |
| Palestine: | | | | |
| Jerusalem..... | Jan. 10-Feb. 20..... | 27 | | |
| Panama: | | | | |
| Bocas del Toro Province— | | | | |
| Sursuba..... | Jan. 18-Feb. 8..... | 11 | | Village 24 miles from Almirante. |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|--------------------------------|----------------------|--------|---------|--|
| Panama—Continued. | | | | |
| Chiriqui Province..... | Dec. 22..... | | | Present. |
| Do..... | Jan. 26..... | | | Present with center of prevalence at Boquete Bajo. At Boquete Bajo, Jan. 22–Mar. 23, 1922, 59 admissions to lazaretto; on Mar. 20, 1922, 16 cases of smallpox, confluent type. |
| Panama..... | Dec. 14..... | 1 | | On Dec. 21, 1921: 1 additional case from country district of Sabanas admitted to hospital. Total admissions, Jan. 1–Dec. 21, 1921, 207. |
| Peru: | | | | |
| Lima..... | Nov. 1–Dec. 31..... | | 3 | |
| Poland..... | | | | Aug. 14–Dec. 31, 1921: Cases, 578; deaths, 146. Exclusive of Brest-Litovsk, Minsk, and Wilno districts. |
| Portugal: | | | | |
| Lisbon..... | Nov. 13–Dec. 31..... | 48 | 12 | |
| Do..... | Jan. 1–28..... | 46 | 1 | |
| Portuguese East Africa: | | | | |
| Lourenco Marques..... | Oct. 1–Nov. 5..... | 2 | 4 | |
| Portuguese West Africa: | | | | |
| Angola— | | | | |
| Loanda..... | Oct. 9–Dec. 31..... | | 7 | |
| Do..... | Jan. 1–14..... | | 3 | |
| Rumania: | | | | |
| Bucharest..... | Nov. 1–30..... | | 33 | |
| Chisinau..... | Dec. 1–31..... | 33 | | |
| Russia: | | | | |
| Esthonia..... | Oct. 1–Dec. 31..... | 38 | | |
| Latvia..... | do..... | 75 | | |
| Do..... | Jan. 1–31..... | 15 | | |
| Senegal: | | | | |
| Dakar..... | do..... | 2 | | |
| Serbia: | | | | |
| Belgrade..... | Oct. 2–Nov. 26..... | 16 | 4 | |
| Siam: | | | | |
| Bangkok..... | Oct. 23–Nov. 5..... | 1 | | |
| Spain: | | | | |
| Barcelona..... | Jan. 8–14..... | | 1 | |
| Huelva..... | Oct. 1–Dec. 31..... | | 3 | |
| Malaga..... | Nov. 1–Dec. 31..... | | 60 | |
| Do..... | Jan. 1–31..... | | 8 | |
| Seville..... | Nov. 16–Dec. 31..... | | 7 | |
| Do..... | Jan. 8–Mar. 11..... | | 33 | |
| Valencia..... | Jan. 22–Mar. 4..... | 3 | | |
| Straits Settlements: | | | | |
| Singapore..... | Nov. 6–Dec. 24..... | 49 | 13 | |
| Do..... | Jan. 1–Feb. 4..... | 50 | 18 | |
| Switzerland: | | | | |
| Glarus Canton..... | Dec. 10..... | | | Epidemic. |
| Lucerne..... | Feb. 1–28..... | 12 | | |
| St. Gall..... | Feb. 12–18..... | 1 | | |
| Zurich..... | do..... | 2 | | In vicinity. |
| Syria: | | | | |
| Adana..... | Dec. 18–24..... | | | Present. |
| Do..... | Jan. 1–14..... | | | Do. |
| Aleppo..... | Dec. 18–24..... | | | Do. |
| Do..... | Jan. 1–Mar. 4..... | | | Do. |
| Alexandretta..... | do..... | | | Do. |
| Beirut..... | Oct. 9–Nov. 13..... | 5 | 2 | |
| Do..... | Jan. 8–Feb. 25..... | 20 | 9 | Dec. 29, 1921–Jan. 4, 1922: Cases, 14; deaths, 2. |
| Cilicia..... | Jan. 8–Feb. 4..... | | | Present. |
| Diarbekir..... | Dec. 18–24..... | | | Do. |
| Do..... | Jan. 1–Feb. 4..... | | | Do. |
| Mersina..... | Dec. 18–24..... | | | Do. |
| Do..... | Jan. 1–7..... | | | Do. |
| Urfa..... | Dec. 18–24..... | | | Do. |
| Do..... | Jan. 1–Feb. 4..... | | | Do. |
| Tunis: | | | | |
| Tunis..... | Nov. 26–Dec. 23..... | 17 | 15 | |
| Do..... | Jan. 1–Feb. 4..... | 4 | 5 | |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|----------------------------|---------------------|--------|---------|--|
| Turkey: | | | | |
| Constantinople..... | Nov. 27-Dec. 24.... | 20 | 4 | |
| Do..... | Jan. 15-Mar. 11.... | 74 | 17 | |
| Union of South Africa..... | | | | Nov. 1-Dec. 31, 1921: Cases, 326; deaths, 6 (colored). White, 10 cases. |
| Cape Province..... | Nov. 5-Dec. 31..... | | | Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 42; deaths, 1 (colored). |
| Do..... | Jan. 8-Feb. 11..... | | | Outbreaks. |
| Natal..... |do..... | | | Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 209; deaths, 5 (colored). |
| Orange Free State..... | Oct. 23-Dec. 24.... | | | Outbreaks. Nov. 1-Dec. 31, 1921: cases, 8 (colored). |
| Do..... | Feb. 5-11..... | | | Outbreaks. |
| Southern Rhodesia..... | Dec. 29-Feb. 15.... | 69 | | |
| Transvaal..... | Oct. 23-Dec. 31.... | | | Outbreaks. |
| Do..... | Jan. 1-Feb. 11.... | | | Outbreaks. December, 1921: Cases, 15. Nov. 1-Dec. 31, 1921: Cases, 22 (colored). Among white population, 8 cases, State not designated. |
| Johannesburg District..... | Dec. 1-31..... | 1 | | |
| Do..... | Jan. 1-7..... | | | Outbreaks. |
| Yugoslavia..... | | | | July 3-30, 1921: Cases, 37. |
| Bosnia Herzegovina..... | July 3-9..... | 2 | | |
| Croatia Slavonia..... |do..... | 1 | | |
| Dalmatia..... |do..... | 1 | | |
| Serbia..... |do..... | 3 | | |
| Belgrade..... | Dec. 11-17..... | 4 | | |
| Do..... | Jan. 1-Feb. 18.... | 6 | | |
| Slavonia..... | July 3-9..... | 1 | | |
| Voivodina..... |do..... | 3 | | |
| On vessel: | | | | |
| S. S. Victoria..... | Jan. 16..... | 1 | 1 | At Thursday Island Quarantine, Australia; vessel left Hong-kong Jan. 3; case isolated, Jan. 10. Vessel left for Townsville, Sydney, and Melbourne. Released at Melbourne Feb. 4, 1922. |
| S. S. West O'Rowa..... | Jan. 5-8..... | 3 | 1 | At Kobe, Japan, from Shanghai, China. |
| S. S. —..... | Jan. 17-23..... | 2 | | At Swansea, Wales, from Persian Gulf. |

TYPHUS FEVER.

| | | | | |
|-----------------|---------------------|-----|----|---|
| Algeria: | | | | |
| Algiers..... | Nov. 1-Dec. 31..... | 3 | | |
| Do..... | Jan. 11-Feb. 28.... | 3 | | |
| Oran..... | Dec. 21-31..... | 1 | | |
| Do..... | Jan. 1-Mar. 10.... | 13 | 4 | |
| Asia Minor: | | | | |
| Brousa..... | Jan. 15-21..... | 1 | | |
| Austria: | | | | |
| Vienna..... | Dec. 4-31..... | 10 | | |
| Do..... | Jan. 1-28..... | 9 | 1 | |
| Bolivia: | | | | |
| La Paz..... | Aug. 1-Dec. 31.... | 121 | 98 | |
| Do..... | Jan. 1-31..... | 15 | 12 | |
| Bulgaria: | | | | |
| Sofia..... | Dec. 18-24..... | 1 | | |
| Do..... | Feb. 12-18..... | 1 | | |
| Chile: | | | | |
| Concepcion..... | Nov. 22-Dec. 26.... | | 3 | |
| Do..... | Jan. 3-30..... | | 3 | |
| Talcahuano..... | Jan. 29-Feb. 18.... | 3 | | |
| Valparaiso..... | Oct. 23-Nov. 26.... | | 6 | |
| Do..... | Jan. 1-7..... | | 1 | |
| China: | | | | |
| Antung..... | Dec. 26-Jan. 1..... | 1 | | |
| Do..... | Feb. 6-12..... | 1 | | |
| Harbin..... | Nov. 7-Dec. 25.... | 12 | | |
| Do..... | Dec. 26-Feb. 19.... | 20 | | |
| | | | | Jan. 23, 1922: Reported extending from Soviet Russia, along railway line to maritime provinces. |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

TYPHUS FEVER—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|-------------------------|----------------------|--------|---------|--|
| Czechoslovakia: | | | | |
| Prague..... | Jan. 22-Feb. 18..... | 3 | | |
| Danzig (free city)..... | Feb. 23..... | 1 | | In district, at Zoppot. In merchant from Warsaw. |
| Egypt: | | | | |
| Alexandria..... | Nov. 19-Dec. 31..... | 3 | 1 | |
| Do..... | Jan. 15-Feb. 25..... | 17 | 5 | |
| Cairo..... | Oct. 1-Dec. 31..... | 18 | 14 | |
| Do..... | Jan. 1-14..... | 3 | 2 | |
| Port Said..... | Jan. 22-Feb. 11..... | 2 | | |
| Finland: | | | | |
| Helsingfors..... | Jan. 1-31..... | 1 | | In courier from Moscow. |
| Germany: | | | | |
| Breslau..... | Dec. 25-31..... | 2 | 1 | |
| Do..... | Jan. 1-Feb. 5..... | 55 | 8 | Including district. |
| Frankfort-on-Oder..... | Feb. 16..... | 26 | | In persons returning from Russia. |
| Hamburg..... | Dec. 11-17..... | 4 | | |
| Great Britain: | | | | |
| Glasgow..... | Dec. 25-31..... | 1 | | |
| Greece: | | | | |
| Saloniki..... | Jan. 23-29..... | 1 | | |
| Italy: | | | | |
| Palermo..... | Jan. 15-28..... | 3 | 1 | |
| Mesopotamia: | | | | |
| Bagdad..... | Oct. 1-Dec. 31..... | 3 | 9 | |
| Mexico: | | | | |
| Mexico City..... | Nov. 20-Dec. 31..... | 242 | | Including municipalities in Federal District. |
| Do..... | Jan. 1-Feb. 18..... | 169 | | Do. |
| San Luis Potosi..... | Dec. 18-24..... | | 1 | Dec. 25-31, 1921: Present. |
| Do..... | Jan. 8-Feb. 25..... | | | Present. One death. |
| Palestine: | | | | |
| Jerusalem..... | Dec. 27-Mar. 13..... | 11 | | |
| Poland: | | | | |
| | | | | Aug. 14-Nov. 5, 1921: Cases, 2,399; deaths, 173. Nov. 6-Dec. 3, 1921: Cases, 1,512; deaths, 105. Nov. 20-Dec. 10, 1921: Cases, 1,162; deaths, 89. Dec. 4-31, 1921: Cases, 3,600; deaths, 313. Jan. 1-7, 1922: Cases, 1,322. All statistics are exclusive of Brest-Litovsk, Minsk, and Wilno districts. |
| District— | | | | |
| Bialystok..... | Nov. 20-Dec. 10..... | 116 | 3 | |
| Do..... | Jan. 1-7..... | 253 | | |
| Galicia— | | | | |
| Lemberg..... | Jan. 3..... | 229 | | Jan. 1-7, 1922: Cases, 61. |
| Kielce..... | Nov. 20-Dec. 10..... | 31 | 8 | |
| Do..... | Jan. 1-7..... | 28 | | |
| Krakow..... | Nov. 20-Dec. 10..... | 45 | 6 | |
| Do..... | Jan. 1-7..... | 53 | | |
| Lodz..... | Nov. 20-Dec. 10..... | 67 | | |
| Do..... | Jan. 1-7..... | 41 | | |
| Lublin..... | Nov. 20-Dec. 10..... | 59 | | |
| Do..... | Jan. 1-7..... | 147 | | |
| Lwow..... | Nov. 20-Dec. 10..... | 121 | 16 | |
| Nowogrod..... | do..... | 249 | 15 | |
| Polesia..... | do..... | 63 | 5 | |
| Do..... | Jan. 1-7..... | 450 | | |
| Posen..... | do..... | 1 | | |
| Stanislavow..... | Nov. 20-Dec. 10..... | 88 | 8 | |
| Do..... | Jan. 1-7..... | 64 | | |
| Tarnopol..... | Nov. 20-Dec. 10..... | 86 | 17 | |
| Do..... | Jan. 1-7..... | 28 | | |
| Volhynia..... | Nov. 20-Dec. 10..... | 89 | 4 | |
| Do..... | Jan. 1-7..... | 107 | | |
| Warsaw..... | Nov. 20-Dec. 10..... | 81 | 2 | |
| Do..... | Jan. 1-7..... | 32 | | |
| Warsaw City..... | Nov. 20-Dec. 10..... | 47 | 5 | |
| Do..... | Jan. 1-7..... | 67 | | |
| Portugal: | | | | |
| Oporto..... | Jan. 8-Mar. 11..... | 22 | 2 | |
| Rumania: | | | | |
| Bucharest..... | Nov. 1-30..... | 3 | | |
| Chisinau..... | Nov. 1-Dec. 31..... | 28 | | Dec. 1-31, 1921: Recurrent typhus, cases, 19. |
| Russia | | | | Nov. 28-Dec. 10, 1921: In Soviet Russia, cases, 7,681. |
| Esthonia..... | Oct. 1-Dec. 31..... | 53 | | |
| Do..... | Jan. 1-31..... | 36 | | Recurrent typhus, 29 cases. |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

TYPHUS FEVER—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|--------------------------------|------------------|--------|---------|--|
| Russia—Continued. | | | | |
| Latvia..... | do. | 341 | | (Corrected report) Oct. 1-Nov. 30, 1921: Cases, 127. |
| Libau..... | Jan. 15-Feb. 1. | 4 | | Oct. 1-31, 1921: Cases, 839; Nov. 1-30, 1921: Cases, 2,399. |
| Perm..... | Nov. 23-Dec. 10. | 1,408 | | Sept. 1-Dec. 31, 1921: Cases, 1,987; mortality, about 10 per cent; hospital cases. |
| Saratov District—Markaiff..... | | | | Jan. 23, 1922: Present in western districts. |
| Serbia: | | | | Epidemic. |
| Belgrade..... | Oct. 2-Nov. 26. | 3 | 2 | |
| Siberia..... | | | | |
| Chita..... | Dec. 26. | | | |
| Vladivostok..... | Dec. 25-31. | 5 | 1 | |
| Spain: | | | | |
| Madrid..... | Dec. 1-31. | 1 | | |
| Do..... | Jan. 1-31. | 2 | | |
| Syria: | | | | |
| Diarbekir..... | Mar. 5-11. | | | Present. |
| Mardin..... | do. | | | Do. |
| Tunis: | | | | |
| Tunis..... | Feb. 5-Mar. 4. | 3 | 3 | |
| Turkey: | | | | |
| Constantinople..... | Nov. 20-Dec. 31. | 19 | | |
| Do..... | Jan. 1-Mar. 11. | 65 | | |
| Union of South Africa..... | | | | Nov. 1-Dec. 31, 1921: Cases, 1,368; deaths, 205 (colored). White, 20 cases; deaths, 4. |
| Cape Province..... | | | | Oct. 23-Dec. 24, 1921: Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 1,053; deaths, 158 (colored). Among white population, 18 cases, 3 deaths. |
| Do..... | | | | Jan. 1-Feb. 11, 1922: Outbreaks. One death in European at Johannesburg, Dec. 6, 1921. |
| East London..... | Oct. 30-Dec. 24. | 3 | | Natives. |
| Do..... | Jan. 29-Feb. 11. | 2 | | Outbreaks. Stated to be prevalent only in Newcastle District. |
| Natal..... | Nov. 5-Dec. 17. | | | Nov. 1-Dec. 31, 1921: Cases, 135; deaths, 25 (colored). |
| Orange Free State..... | Nov. 13-Dec. 31. | | | Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 158; deaths, 21 (colored). |
| Do..... | Jan. 1-Feb. 11. | | | Outbreaks. |
| Durban..... | Jan. 15-21. | 1 | | Imported. |
| Transvaal..... | Jan. 8-Feb. 11. | | | Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 35; deaths, 4 (colored). White, one case, one death. |
| Johannesburg District..... | Jan. 12-18. | 26 | 4 | |
| Venezuela: | | | | |
| Maracaibo..... | Dec. 20-26. | | 1 | |
| Yugoslavia..... | | | | July 3-30, 1921: Cases, 13. |
| Bosnia Herzegovina..... | July 3-9. | 1 | | |
| Croatia— | | | | |
| Zagreb..... | Jan. 1-Feb. 25. | 3 | | |
| Montenegro..... | July 3-9. | 3 | | |

YELLOW FEVER.

| | | | | |
|---|-----------------|----|---|------------------------------------|
| Mexico..... | | | | Year 1921: Cases, 115; deaths, 53. |
| Colima (State)..... | | | | Year 1921: Cases, 7; deaths, 4. |
| Colima..... | Oct. 27. | 4 | 3 | |
| Manzanillo..... | Aug. 21. | 3 | 1 | |
| Jalisco (State)..... | | | | Year 1921: Cases, 13; deaths, 7. |
| Guadalajara..... | Nov. 1-30. | 1 | 1 | Imported. |
| Puerta Vallarta (Las Penas). Do..... | Oct. 5-Dec. 17. | 13 | 5 | |
| Tonila..... | Jan. 31. | | 1 | |
| Quintana Roo (Territory)—Payo Obispo..... | Aug. 31. | 1 | 1 | |
| Sinaloa (State)..... | Aug. 8. | 1 | 1 | |
| Culiacan..... | Sept. 17. | 4 | 1 | Year 1921: Cases, 18; deaths, 9. |
| Guamuchil..... | Oct. 10. | 1 | | |
| Mazatlan..... | Aug. 21. | 1 | 1 | Imported. |
| Palmar de los Leales..... | Sept. 30. | 12 | 7 | |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to April 14, 1922—Continued.

YELLOW FEVER—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|--------------------------|---------------------|--------|---------|--|
| Mexico—Continued. | | | | |
| Tamaulipas (State)..... | | | | Year, 1921: Cases, 1; deaths, 1. |
| Tampico..... | Jan. 11..... | 1 | 1 | |
| Vera Cruz (State)..... | | | | Year 1921: Cases, 75; deaths, 31. |
| Alamo..... | June 21..... | 4 | 1 | Oil camp. |
| Alvarado..... | July 3..... | 1 | 1 | |
| Barra de Penn..... | July 18..... | 1 | 1 | |
| Cordoba..... | Sept. 22..... | 5 | 3 | |
| Cosamaloapam..... | July 18..... | 14 | 6 | |
| Nogales..... | Oct. 28..... | 1 | 1 | |
| Orizaba..... | do..... | 1 | | |
| Papantla..... | Jan. 14..... | 6 | 3 | |
| Providencia..... | Oct. 28..... | 3 | | |
| Purga..... | Feb. 7..... | 1 | 1 | |
| Rancho de Santa Rosa.. | Oct. 8..... | 2 | | |
| Rancho "El Jaguey".... | Sept. 14..... | 2 | 2 | |
| San Pablo (Papantla).. | Sept. 12..... | 1 | | |
| San Ildefonso..... | Oct. 17..... | 2 | | |
| Tierra Blanca..... | Sept. 24-Nov. 12... | 4 | 3 | |
| Tlacotalpan..... | Sept. 14..... | 1 | 1 | |
| Tuxpam..... | Jan. 3..... | 8 | 2 | |
| Vera Cruz..... | Jan. 15..... | 18 | 7 | Two of these cases imported Dec. 20-26, 1921: Cases, 1; deaths, 1. Imported. |